Maths minutes

BOOK G
(Ages 11+)

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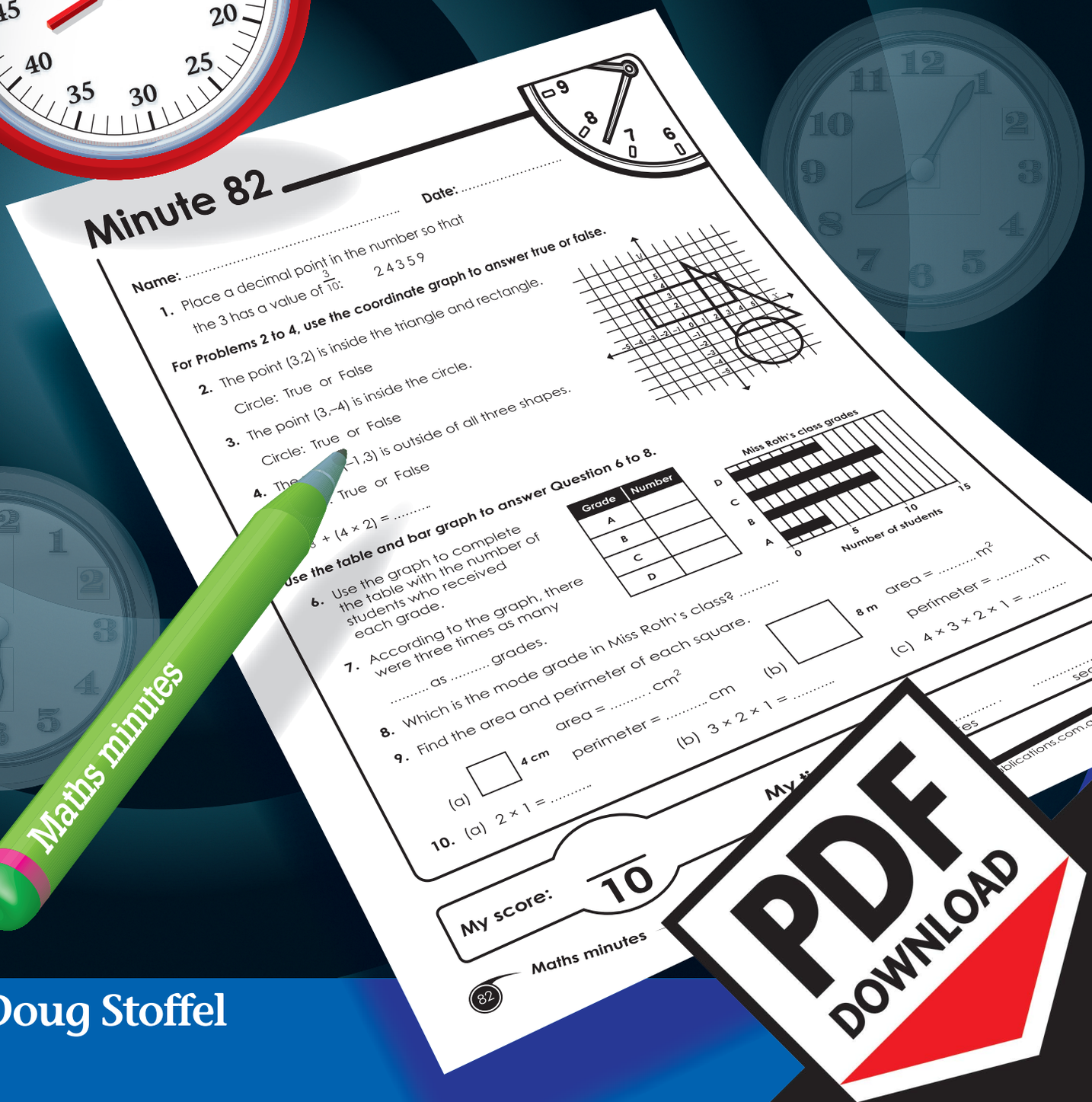
100 minutes to practise and reinforce essential skills



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Doug Stoffel

Maths minutes *Book G*

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RIC–3646

Titles available in this series:

Maths minutes – Book B *(Ages 6–7)*
Maths minutes – Book C *(Ages 7–8)*
Maths minutes – Book D *(Ages 8–9)*
Maths minutes – Book E *(Ages 9–10)*
Maths minutes – Book F *(Ages 10–11)*
Maths minutes – Book G *(Ages 11–12)*

Internet websites
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Maths minutes – Book G

Foreword

Maths minutes is a six-book series for students in Australian primary schools, that provides a structured daily program of easy-to-follow activities in the mathematics areas of: **number, space, measurement, chance and data** and **pre-algebra.**

The program provides a framework to:

- *promote the ongoing learning of essential maths concepts and skills through practice and reinforcement*
- *develop and maintain speed of recall and maths fluency*
- *develop knowledge and understanding of mathematics terminology*
- *encourage mental maths strategies*
- *provide support to the overall daily mathematics program*.

Maths minutes – Book G features 100 'minutes', each with 10 classroom-tested problems. The problems provide the students with practice in the key areas of mathematics for their Year level, and basic computational skills. Designed to be implemented in numerical order from 1 to 100, the activities in *Maths minutes* are developmental through each book and across the series.

Comprehensive teachers notes, record-keeping charts, a scope-and-sequence table (showing when each new concept and skill is introduced), and photocopiable student reference materials are also included.

How many minutes does it take to complete a 'maths minute'?

Students will enjoy challenging themselves as they apply their mathematical knowledge and understanding to complete a 'maths minute' in the fastest possible time.

Titles available in this series:	**Age levels**
• Maths minutes – *Book B*	Age 6–7 years
• Maths minutes – *Book C*	Age 7–8 years
• Maths minutes – *Book D*	Age 8–9 years
• Maths minutes – *Book E*	Age 9–10 years
• Maths minutes – *Book F*	Age 10–11 years
• Maths minutes – *Book G*	Age 11–12 years

Contents

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Teachers notes

How to use this book

Maths minutes can be used in a variety of ways, such as:

- **a speed test**. As the teacher starts a stopwatch, students begin the 'minute'. As each student finishes, he/she raises a hand and the teacher calls out the time. The student records this time on the appropriate place on the sheet. Alternatively, a particular time can be allocated for the whole class to complete the 'minute' in.

  Students record their scores and time on their 'minute journal' (see page vii).
- **a whole-class activity**. Work through the 'minute' together as a teaching or reviewing activity.
- **a warm-up activity**. Use a 'minute' a day as a 'starter' or warm-up activity before the main part of the maths lesson begins.
- **a homework activity**. If given as a homework activity, it would be most beneficial for the students if the 'minute' is corrected and reviewed at the start of the following lesson.

Maths minutes strategies

Encourage students to apply the following strategies to help improve their scores and decrease the time taken to complete the 10 questions.

- To use mental maths strategies whenever possible.
- To move quickly down the page, answering the problems they know first.
- To come back to problems they are unsure of, after they have completed all other problems.
- To make educated guesses when they encounter problems they are not familiar with.
- To rewrite word problems as number problems.

A *Maths minute* student activity page.

Name and date

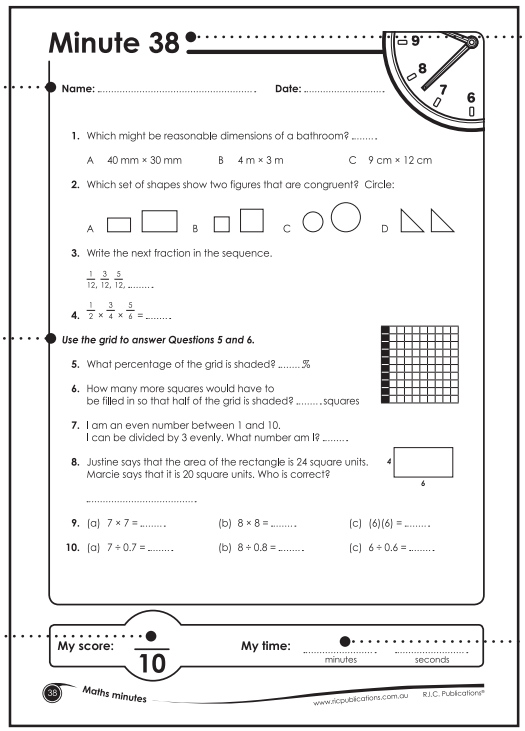
Students write their name and the date in the spaces provided.

Questions

There are 10 problems, providing practice in every key area of the four maths strands.

Score

Students record their score out of 10 in the space provided.



'Maths minute' number

Maths minutes are designed to be completed in numerical order.

Time

Students record the time taken to complete the 'minute' at the bottom of the sheet. (This is optional.)

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Teachers notes

Marking

Answers are provided for all activities. How these activities are marked will vary according to the teacher's organisational policy. Methods could include whole-class checking, partner checking, individual student checking, or collection by the teacher.

Diagnosis of problem areas

Maths minutes provides the teacher with immediate feedback of whole-class and individual student understanding. This information is useful for future programming and planning of further opportunities to practise and review the skills and concepts which need addressing.

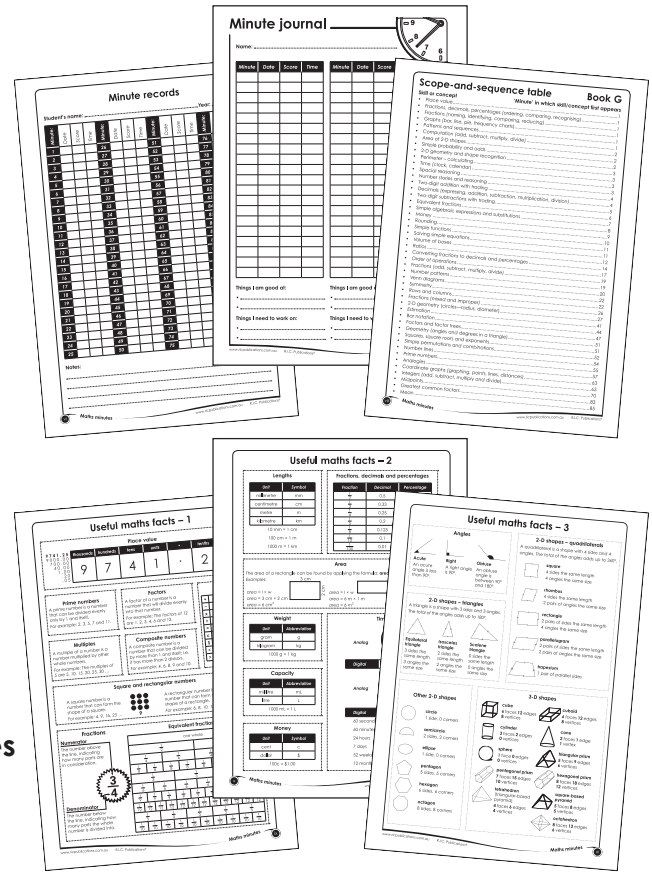
Make use of the structured nature of the questions to diagnose problem areas; rather than asking who got 10 out of 10, ask the students who got Number 1 correct to raise their hands, Number 2, Number 3 etc. This way you will be able to quickly determine which concepts and calculations are causing problems for the majority of the students. Once the routine of *Maths minutes* is established, the teacher will have time to work with individuals or small groups to assist them with any areas causing problems.

Meeting the needs of individuals

The structure of *Maths minutes* allows some latitude in the way the books are used; for example, it may be impractical (as well as demoralising for some) for all students to be using the same book. It can also be difficult for teachers to manage the range of abilities found in any one classroom, so while students may be working at different levels from different books, the familiar structure makes it easier to cope with individual differences. An outline of the suggested age range levels each book is suited to is given on page iii.

Additional resources:

- **Minute records**
  Teachers can record student scores and times on the ***Minute records*** table located on page vi.
- **Scope and sequence**
  The ***Scope-and-sequence table*** gives the 'minute' in which each new skill and concept appears for the first time.
- **Minute journal**
  Once a 'minute' is completed, students record their score and time on their ***Minute journal***, located on page vii.
- **Useful maths facts**
  Three pages of photocopiable student reference materials have been included, which students can refer to when required.
- **Answers to all questions are found on pages 101 to 105.**



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Minute records

Student's name: ..... **Year:** .....

Minute:	Date	Score	Time	Minute:	Date	Score	Time	Minute:	Date	Score	Time	Minute:	Date	Score	Time
1				26				51				76			
2				27				52				77			
3				28				53				78			
4				29				54				79			
5				30				55				80			
6				31				56				81			
7				32				57				82			
8				33				58				83			
9				34				59				84			
10				35				60				85			
11				36				61				86			
12				37				62				87			
13				38				63				88			
14				39				64				89			
15				40				65				90			
16				41				66				91			
17				42				67				92			
18				43				68				93			
19				44				69				94			
20				45				70				95			
21				46				71				96			
22				47				72				97			
23				48				73				98			
24				49				74				99			
25				50				75				100			

Notes:

.....

.....

.....

.....

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Minute journal

Name: .....

Minute	*Date*	*Score*	*Time*

Minute	*Date*	*Score*	*Time*

Things I am good at:

- .....
- .....

Things I need to work on:

- .....
- .....

Things I am good at:

- .....
- .....

Things I need to work on:

- .....
- .....

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Scope-and-sequence table Book G

Skill or concept **'Minute' in which skill/concept first appears**

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Useful maths facts – 1

Place value

9741.25	thousands	hundreds	tens	units	•	tenths	hundredths
9000.00 700.00 40.00 1.00 .20 .05	9	7	4	1	·	2	5

Prime numbers

A prime number is a number that can be divided evenly only by 1 and itself.

For example: 2, 3, 5, 7 and 11.

Factors

A factor of a number is a number that will divide evenly into that number.

For example: The factors of 12 are 1, 2, 3, 4, 6 and 12.

Symbols

+	addition
–	subtraction
x	multiplication
÷	division
=	equal to
c	cent
$	dollar
<	less than
>	greater than

Multiples

A multiple of a number is a number multiplied by other whole numbers.

For example: The multiples of 5 are 5, 10, 15, 20, 25, 30 …

Composite numbers

A composite number is a number that can be divided by more than 1 and itself; i.e. it has more than 2 divisors.

For example: 4, 6, 8, 9 and 10.

Square and rectangular numbers

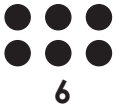
A square number is a number that can form the shape of a square.

For example: 4, 9, 16, 25 …

9

A rectangular number is a number that can form the shape of a rectangle.

For example: 6, 8, 10, 12 …



6

Fractions

Numerator

The number above the line, indicating how many parts are in consideration.

Denominator

The number below the line, indicating how many parts the whole number is divided into.

Equivalent fractions

one whole											
$\frac{1}{2}$						$\frac{1}{2}$					
$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$		
$\frac{1}{8}$	$\frac{1}{8}$		$\frac{1}{8}$	$\frac{1}{8}$		$\frac{1}{8}$	$\frac{1}{8}$		$\frac{1}{8}$	$\frac{1}{8}$	
$\frac{1}{3}$				$\frac{1}{3}$				$\frac{1}{3}$			
$\frac{1}{6}$		$\frac{1}{6}$			$\frac{1}{6}$		$\frac{1}{6}$			$\frac{1}{6}$	
$\frac{1}{9}$	$\frac{1}{9}$		$\frac{1}{9}$	$\frac{1}{9}$		$\frac{1}{9}$	$\frac{1}{9}$		$\frac{1}{9}$	$\frac{1}{9}$	
$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
$\frac{1}{5}$			$\frac{1}{5}$			$\frac{1}{5}$			$\frac{1}{5}$		
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$		

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Useful maths facts – 2

Lengths

Unit	Symbol
millimetre	mm
centimetre	cm
metre	m
kilometre	km

10 mm = 1 cm

100 cm = 1 m

1000 m = 1 km

Fractions, decimals and percentages

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
$\frac{1}{3}$	0.33	33%
$\frac{1}{4}$	0.25	25%
$\frac{1}{5}$	0.2	20%
$\frac{1}{8}$	0.125	12.5%
$\frac{1}{10}$	0.1	10%
$\frac{1}{100}$	0.01	1%

Area

The area of a rectangle can be found by applying the formula: **area = length × width**.

Examples:

3 cm

area = l × w
area = 3 cm × 2 cm
area = 6 cm^2

6 m

area = l × w
area = 6 m × 1 m
area = 6 m^2

Weight

Unit	Abbreviation
gram	g
kilogram	kg

1000 g = 1 kg

Capacity

Unit	Abbreviation
millilitre	mL
litre	L

1000 mL = 1 L

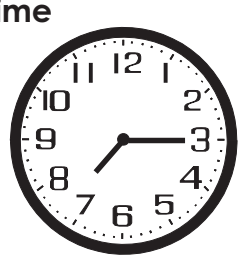
Money

Unit	Symbol
cent	c
dollar	$

100c = $1.00

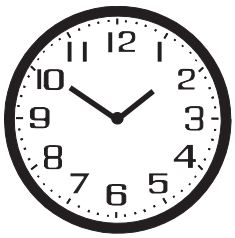
Time

Analog



Digital	7.15

Analog



Digital	1.50

60 seconds	=	1 minute
60 minutes	=	1 hour
24 hours	=	1 day
7 days	=	1 week
52 weeks	=	1 year
12 months	=	1 year

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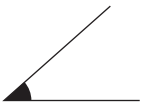
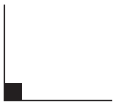
Useful maths facts – 3

Angles



Acute
An acute angle is less than 90°.

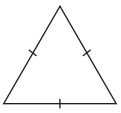


Right
A right angle is 90°.

Obtuse
An obtuse angle is between 90° and 180°.

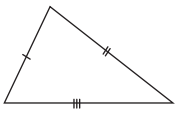
2-D shapes – triangles

A triangle is a shape with 3 sides and 3 angles. The total of the angles adds up to 180°.



Equilateral triangle
3 sides the same length
3 angles the same size

Isosceles triangle
2 sides the same length
2 angles the same size

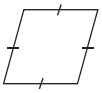


Scalene triangle
0 sides the same length
0 angles the same size

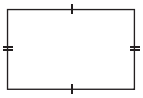
2-D shapes – quadrilaterals

A quadrilateral is a shape with 4 sides and 4 angles. The total of the angles adds up to 360°.

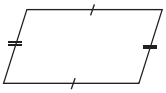
square
4 sides the same length
4 angles the same size



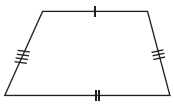
rhombus
4 sides the same length
2 pairs of angles the same size



rectangle
2 pairs of sides the same length
4 angles the same size

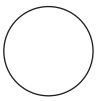


parallelogram
2 pairs of sides the same length
2 pairs of angles the same size



trapezium
1 pair of parallel sides

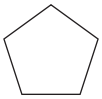
Other 2-D shapes



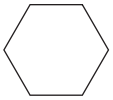
circle
1 side, 0 corners

semicircle
2 sides, 2 corners

ellipse
1 side, 0 corners



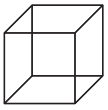
pentagon
5 sides, 5 corners



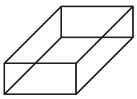
hexagon
6 sides, 6 corners

octagon
8 sides, 8 corners

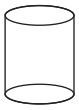
3-D shapes



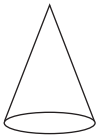
cube
6 faces **12** edges
8 vertices



cuboid
6 faces **12** edges
8 vertices

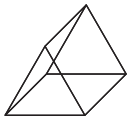


cylinder
3 faces **2** edges
0 vertices

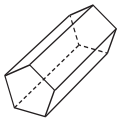


cone
2 faces **1** edge
1 vertex

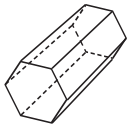
sphere
1 face **0** edges
0 vertices



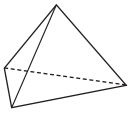
triangular prism
5 faces **9** edges
6 vertices



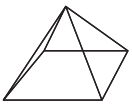
pentagonal prism
7 faces **15** edges
10 vertices



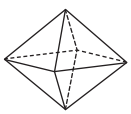
hexagonal prism
8 faces **18** edges
12 vertices



tetrahedron
(triangular-based pyramid)
4 faces **6** edges
4 vertices



square-based pyramid
5 faces **8** edges
5 vertices



octahedron
8 faces **12** edges
6 vertices

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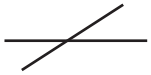
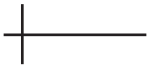
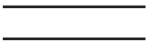
Minute 1

Name: ..... **Date:** .....

1. Circle the number that has a 4 in the tens place.

324 264 4321 49

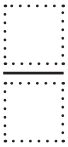
2. Circle the set of lines that are parallel.

A  B  C 

3. Write these decimals in order from smallest to biggest. 0.403 0.034 0.340

....

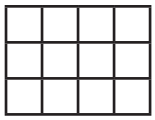
4. Write the fraction that represents the shaded boxes.

 = 

5. 5 + ... = 12

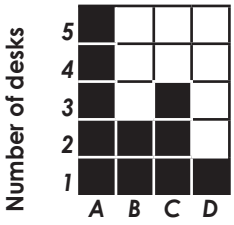
6. What comes next in the pattern? 1, 5, 9, 13, ...

7. What is the area (number of squares) of the rectangle to the right?



..... square units

8. According to the chart, how many desks are in column A?



..... desks

9. (a) 9 × 4 = ... (b) 9 × 7 = ... (c) 9 × 9 = ...

10. (a) 28 ÷ 7 = ... (b) 42 ÷ 7 = ... (c) 63 ÷ 7 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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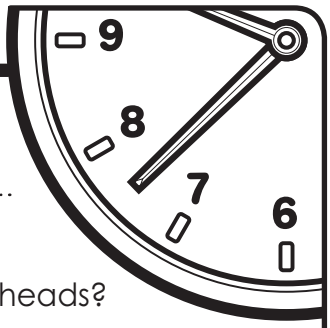
Minute 2

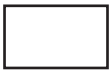
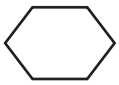


Name: ..... **Date:** .....

1. If you flip a coin 10 times, how many times is it likely to land on heads?

Circle: A 10 B 5 C 2 D impossible to tell

2. Which shape is a pentagon?

Circle: A  B  C  D 

3. Write each fraction in number form.

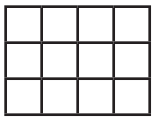
(a) two–fifths = ...

(b) three–quarters = ...

4. Write the fraction that represents the shaded boxes. ..... 

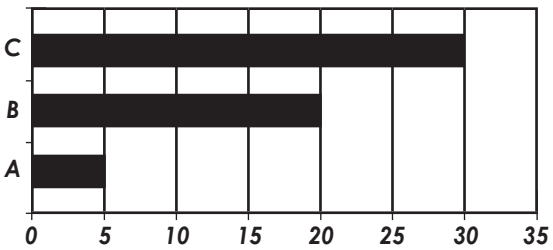
5. (3 × 4) + 4 = ...

6. What comes next in the pattern? 4, 8, 12, 16, ...

7. What is the perimeter (distance around) of the rectangle to the right? 

..... units

8. According to the graph to the right:



A = ...

B = ...

C = ...

9. (a) 8 × 6 = ... (b) 8 × 4 = ... (c) 8 × 7 = ...

10. (a) $\frac{24}{6}$ = ... (b) $\frac{36}{6}$ = ... (c) $\frac{18}{6}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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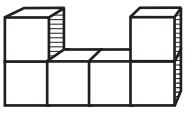
Minute 3

Name: ..... **Date:** .....

1. If it is 5.32 pm now, what time will it be 24 minutes from now?

....

2. How many cubes are in this shape?



.....

3. Write two fractions that represent the shaded boxes.

....

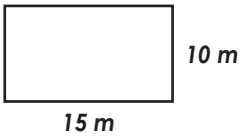
4. Write **>** or **<** in the circle to compare the fractions. $\frac{7}{9}$ ◯ $\frac{8}{9}$

5. Mel makes arm bracelets. She is making one for each arm of her six friends. How many should she make?

..... bracelets

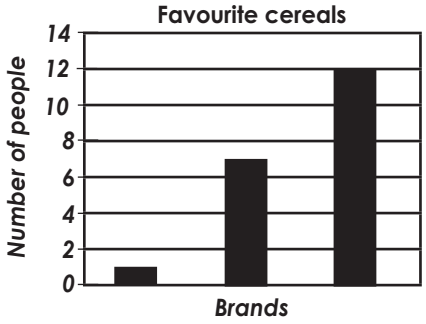
6. What comes next in the pattern? 2, 4, 8, ...

7. Joe wants to build a fence for his dog, Charlie. He plans to surround the rectangle to the right with the fence. How many metres of fencing will he need?



..... m

8. How many people took part in this survey?



..... people

9. (12) (3) = 36

(a) (12) (5) = ...

(b) (12) (6) = ...

10. (a) 50 ÷ 5 = ... (b) 55 ÷ 5 = ... (c) 45 ÷ 5 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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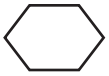
Minute 4

Name: ..... **Date:** .....

1. Circle the number with a 5 in the tenths place.

36.05 41.5 50.313 15.38

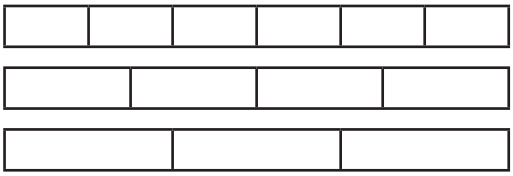
2. Which of these shapes is a trapezium?

Circle: A  B  C  D 

For Questions 3 and 4, write > , < or =. Use the bars to help you.

3. $\frac{3}{6}$ ○ $\frac{1}{3}$

4. $\frac{1}{4}$ ○ $\frac{1}{3}$

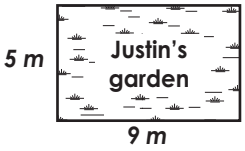


5. 2 × (4 + 7) = 2 × (11) = ...

6. What comes next in the pattern? 123, 224, 325, ...

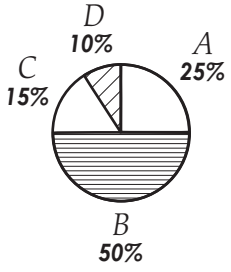
7. Justin has 30 metres of fence. Would this be enough to surround his garden?

Circle: Yes or No



8. According to the chart, Brand B was chosen twice as often as Brand ..... .

Favourite brands



9. (a) 1 + 2 + 3 = ...

(b) 3 + 4 + 5 = ...

(c) 5 + 6 + 7 = ...

10. (a) 38 + 37 = ... = ...

(b) 43 + 96 = ... = ...

(c) 26 + 57 = ... = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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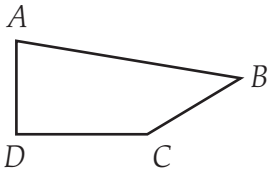
Minute 5

Name: ..... **Date:** .....

1. The height of a room would most likely be 3 .....

kilometres centimetres metres

2. Which angle of the shape is a right angle?

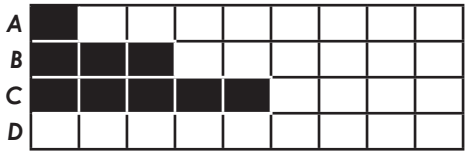


.....

3. $\frac{1}{2}$ of 20 = ...

4. Write as a decimal: two and three–tenths = ...

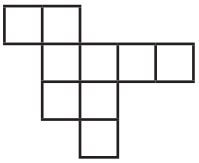
5. If the pattern continues, how many boxes should be shaded in row D?



..... boxes

6. (2 × 3) + (3 × 4) = ... + ... = ...

7. What is the area of the shape to the right?



..... square units

8. In the chart to the right, the y numbers are ..... times the x numbers.

x	1	2	4
y	3	6	12

9. (a) 49 − 28 = ...

.....

(b) 51 − 32 = ...

.....

10. (a) 14 × 5 = ...

.....

(b) 23 × 7 = ...

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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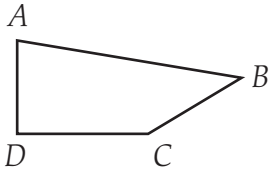
Minute 6

Name: ..... **Date:** .....

1. To build a school, it might take two .....

days weeks years

2. Which angle of the shape is an obtuse angle? .....



3. Which of the following is equal to $\frac{1}{2}$? .....

$\frac{5}{12}$ $\frac{7}{14}$ $\frac{10}{25}$ $\frac{12}{30}$

4. Write as a decimal: twenty–three hundredths = 0.....

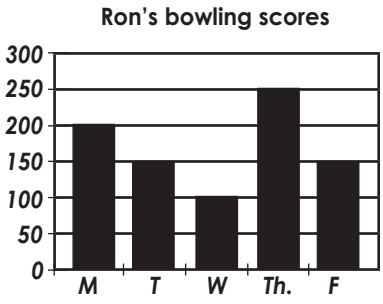
5. The library, post office and petrol station are all on Main Street.
The library is three metres west of the post office.
The petrol station is six metres east of the post office.
How far apart are the library and petrol station? .....

6. Continue the pattern. A12, B16, C20, ... , ...

7. What is the area of a rectangle with a length of 9 millimetres and a width of 7 millimetres?

..... mm^2

Use the bar graph to answer Questions 8 and 9.



8. On what day of the week did Ron bowl the best?

.....

9. On which two days of the week did Ron have the same score? ..... and .....

10. (a) 11 + 43 = ... (b) 26 + 19 = ... (c) 18 + 17 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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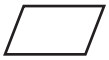
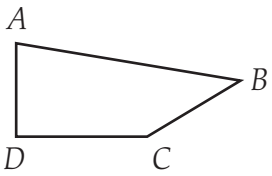
Minute 7

Name: ..... **Date:** .....

1. Which of these shapes does not belong?

Circle: A  B  C  D 

2. Which angles of the shape are acute angles?



..... and .....

3. Which of the following are equal to $\frac{1}{4}$?

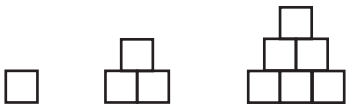
..... and .....

A $\frac{5}{20}$ B $\frac{7}{21}$ C $\frac{10}{40}$ D $\frac{12}{50}$

4. Write as a decimal: forty–three thousandths = 0.0.....

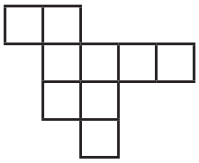
5. If a = 10 and b = 6, then $a + b = 16$. Circle: True or False.

6. Draw the next shape in the sequence.

 .....

7. What is the perimeter of the shape?

..... units



Use the chart to answer Questions 8 and 9.

8. Which student had the best score?

.....

9. Desiree's score was about twice as high as .....'s..... score.

10. (a) $3\overline{)636}$ (b) $3\overline{)129}$ (c) $3\overline{)501}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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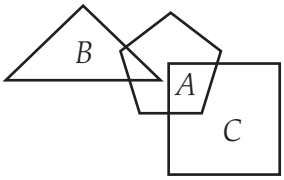
Minute 8

Name: ..... **Date:** .....

1. Justine's bill at a restaurant is $14.60. She pays with a twenty–dollar note. How much change does she get back?

$ .....

For Problems 2 and 3, use the diagram to answer the questions.



2. Which letter is inside the square and pentagon? .....

3. Which letter is outside the pentagon but inside the triangle? .....

4. Write the fraction for the shaded part of each square.

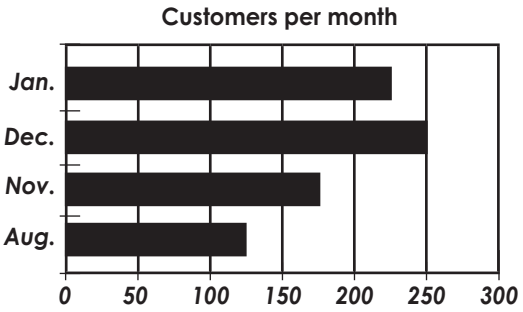
(a)  .....

(b)  .....

5. If 7 out of 11 balloons are red, what fraction of balloons are NOT red? .....

6. What comes next in the pattern? 1, 2, 4, 7, 11, ...

Use the bar graph to answer Questions 7 and 8.



7. During which month(s) did more than 200 customers visit the shop?

..... and .....

8. In August, half as many customers visited the shop as in ..... .

9. (a) 3.6 − 0.7 = ...

.....

(b) 4.9 − 0.6 = ...

.....

(c) 12.75 − 0.35 = ...

.....

10. (a) 22 × 4 = ...

.....

(b) 34 × 5 = ...

.....

(c) 46 × 6 = ...

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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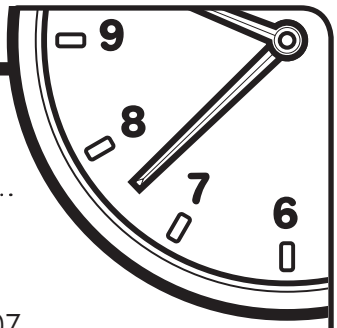
Minute 9



Name: ..... **Date:** .....

1. Round each number to the nearest ten.

(a) 24 ..... (b) 311 ..... (c) 107 .....

2. Which of the following shapes has a right angle?

Circle: A  B  C  D 

3. Which of the following groups of numbers is in order from lowest to highest?

A 323, 411, 421, 506 B 108, 106, 217, 304 .....

C 98, 94, 36, 29 D 200, 199, 198, 405

4. Which of the following is NOT equal to 45? .....

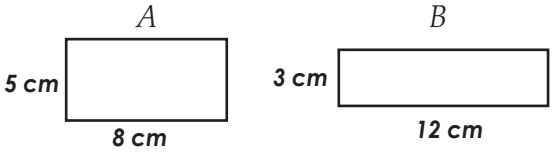
A 3 ×10 × 2 B 3 × 3 × 5

C 10 + 10 + 10 + 10 + 5 D 50 – 5

5. 12 × ..... = 48

6. What comes next in the pattern? $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}$, ...

7. Which shape has the greater area? .....



Use the chart to answer Questions 8 and 9.

Weights of cars	
Colour	***Weight in kilograms***
Blue	***1250***
Red	***1450***
Green	***1130***

8. Which car weighs the most? .....

9. How much more does the red car weigh than the green car?

.....

10. (a) 1.2 × 0.6 = ...

.....

(b) 1.4 × 0.7 = ...

.....

(c) 2.6 × 0.8 = ...

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 10

Name: ..... **Date:** .....

1. Which of the following numbers is NOT equal to 36? .....

A 4×9 B $18 + 18$ C $40 - 6$ D $10 + 10 + 10 + 6$

2. Which one of these shapes has four angles (corners)?

Circle: A  B  C  D 

3. Which of the following groups of numbers is in order from highest to lowest?

A 323, 411, 421, 506 B 108, 106, 217, 304 .....

C 98, 94, 36, 29 D 200, 199, 198, 405

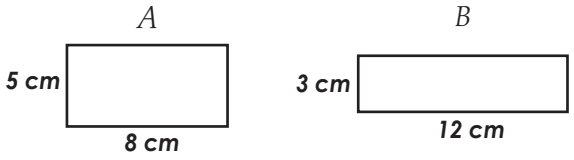
4. Complete the chart.

Add 0.4	
Start	***End***
2.2	***2.6***
3.1	
4.7	

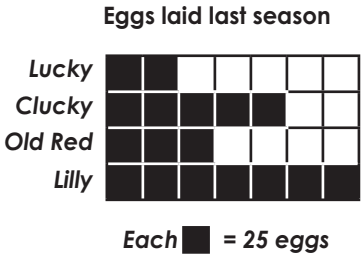
5. 28 ÷ ..... = 7

6. What comes next in the pattern? $\frac{1}{3}, \frac{2}{5}, \frac{3}{7}, ...$

7. Which shape has the greater perimeter? .....



Use the bar graph to answer Questions 8 and 9.



8. How many eggs did Lucky lay last season?

..... eggs

9. How many more eggs did Clucky lay than Lucky?

..... eggs

10. (a) 3.3 + 2.4 = ...

(b) 4.5 + 5.6 = ...

(c) 7.2 + 10.3 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 11

Name: ..... **Date:** .....

1. Circle the number with a 4 in the thousands place.

324 421 4321 49

2. Which of these shapes is a hexagon?

Circle: A  B  C  D 

3. Which of the following is NOT equal to 40? .....

A $4 \times 8 + 8$ B $2 \times 2 \times 5$ C $10 + 5 \times 6$

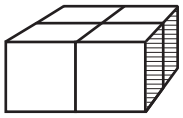
4. Write the fractions in order from smallest to biggest. $\frac{3}{8}, \frac{7}{8}, \frac{2}{8}, \frac{8}{8}$

.....

5. If $\frac{42}{x} = 7$, then x = ...

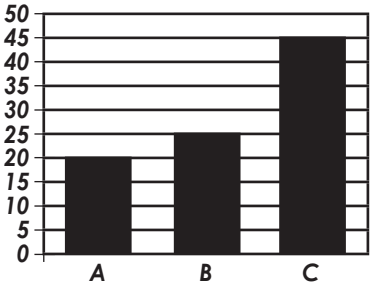
6. What comes next in the pattern? 12, 15, 17, 20, 22, 25, ...

7. How many cubes would three layers of this shape have?



..... cubes

8. According to the graph to the right:



A = ...

B = ...

C = ...

9. (a) 9×7 = ... (b) 8×8 = ... (c) 6×7 = ...

10. (a) $3 + 5 + 7$ = ... (b) $4 + 7 + 6$ = ... (c) $2 + 9 + 8$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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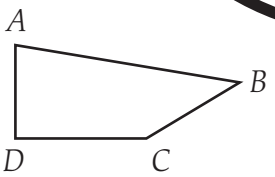
Minute 12

Name: ..... **Date:** .....

1. While watching a movie on television, how many commercials might appear?

2 20 200 .....



2. Which angle on the shape is an obtuse angle? .....

3. Which of the following groups of numbers is in order from lowest to highest? .....

A 0.312, 0.411, 0.601, 0.806 B 10.8, 10.6, 31.7, 40.4

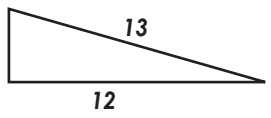
C 0.88, 0.84, 0.76, 0.49 D 5.00, 3.19, 1.98, 0.755

4. If $\frac{1}{4} = \frac{x}{8}$, then x = ...

5. Anna finished a race five metres ahead of Jack. Jack finished nine metres ahead of Tina. How many metres ahead of Tina was Anna? ..... metres

6. Forty tickets were sold for a lottery. If Lon bought two tickets, what are the chances he will win? .....

7. What is the perimeter of the triangle?



..... units

Use the chart to answer the question.

Glasses of lemonade sold					
Justin	☺	☺	☺	☺	
Leah	☺	☺			
Rhonda	☺	☺	☺		
Candice	☺				

Each ☺ = 10 glasses.

8. How many glasses of lemonade did Rhonda sell? ..... glasses

9. (a) 2.6 + 3.2 = ...

..... (b) 3.8 + 4.5 = ...

.....

10. (a) 5.6 × 10 = ...

..... (b) 6.3 × 10 = ...

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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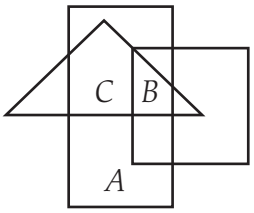
Minute 13

Name: ..... **Date:** .....

1. Round each number to the nearest hundred.

(a) 124 ..... (b) 2311 ..... (c) 48 .....

Use the diagram to answer Questions 2 and 3.



2. Which letter is inside the triangle and the rectangle but is not in the square? .....

3. Which letter is inside of all three shapes? .....

4. Which fraction is NOT in its simplest form? .....

A $\frac{1}{4}$ B $\frac{2}{5}$ C $\frac{3}{8}$ D $\frac{2}{6}$

Use the chart to answer Questions 5 and 6.

Year 4 classes		
	Boys	***Girls***
Room 1	***12***	***13***
Room 2	***15***	***11***

5. According to the chart, what fraction of the total number of students in Room 1 are boys? .....

6. How many boys are in Rooms 1 and 2? ..... boys

7. (3 × 4) + (2 × 2) = 16 Circle: True or False

8. A teacher says he will give out a prize one day of next week to anyone who works hard. What is the probability that he will give out this prize on Thursday?

.....

9. If $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$, then: (a) $\frac{1}{3} \times \frac{1}{4}$ = ... (b) $\frac{1}{5} \times \frac{1}{6}$ = ...

10. (a) 46 − 16 = ... (b) 79 − 16 = ... (c) 88 − 16 = ...

My score: ____ / 10 **My time:** ..... minutes ..... seconds

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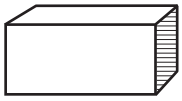
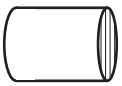
Minute 14

Name: ..... **Date:** .....

1. In the number 1846, the ..... is in the tens place and the ..... is in the hundreds place.

2. Which of these shapes is a cube?

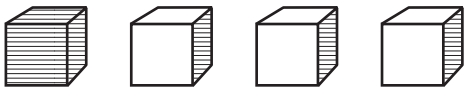
Circle: A  B  C  D 

3. Circle the fraction that is NOT in its simplest form. $\frac{5}{11}$ $\frac{5}{15}$ $\frac{5}{12}$ $\frac{5}{18}$

4. If $\frac{2}{3} = \frac{a}{15}$, then a = ...

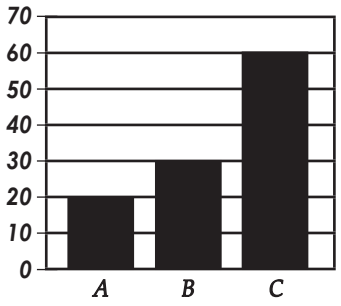
5. ..... + 11 = 20

6. These four cubes were placed in a bag. What is the probability that the dark one would be pulled out of the bag first?



.....

Use the bar graph to answer Questions 7 and 8.



7. Which of the following statements is/are true about the graph?

A $A + B = 50$ B C is half of B

C B is more than A

8. $A + B + C$ is closest to ..... .

A 50 B 100 C 200

9. Change to decimal form.

(a) $2\frac{1}{2}$ = ... (b) $3\frac{1}{4}$ = ...(c) $20\frac{1}{2}$ = ...

10. If $\frac{20}{4} = 5$, then: (a) $\frac{30}{5}$ = ... (b) $\frac{40}{8}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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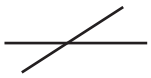
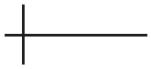
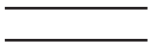
Minute 15

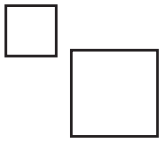
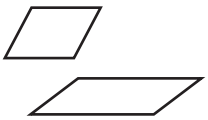
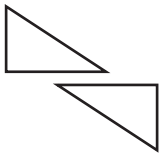
Name: ..... **Date:** .....

1. (2 × $1) + (7 × 50c) + (4 × 10c) = $.....

2. Which set of lines are **perpendicular**? .....

A  B  C 

3. Which set of shapes shows two figures that are **congruent**? .....

A  B  C 

Write > , < or = to complete Questions 4 and 5.

4. $\frac{2}{8}$ ○ $\frac{2}{9}$

5. $\frac{1}{5}$ ○ $\frac{2}{10}$

6. What comes next in the pattern? 5, 7, 4, 6, 3, 5, ...

7. What is the perimeter of a square if each side is 5 metres?

..... metres

8. The y numbers in this chart are ..... times the x numbers.

x	y
2	10
3	15
7	35

9. (a) 150 − 25 = ...

.....

(b) 275 − 125 = ...

.....

(c) 325 − 75 = ...

.....

10. (a) $5\overline{)155}$ (b) $4\overline{)408}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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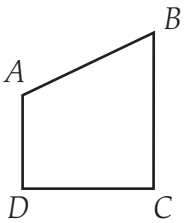
Minute 16

Name: ..... **Date:** .....

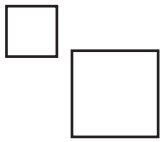
1. I have a 1 in the ones place, a 4 in the tens place, and a 5 in the hundreds place.

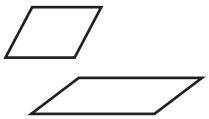
What number am I? .....

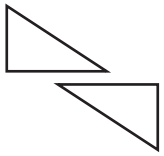


2. Which angle is an acute angle? .....

3. Which set of figures shows two shapes that are **similar** but not **congruent** (same size and shape)? .....

A 

B 

C 

4. Which fraction is in its simplest form?

Circle: A $\frac{5}{10}$ B $\frac{7}{14}$ C $\frac{10}{25}$ D $\frac{12}{25}$

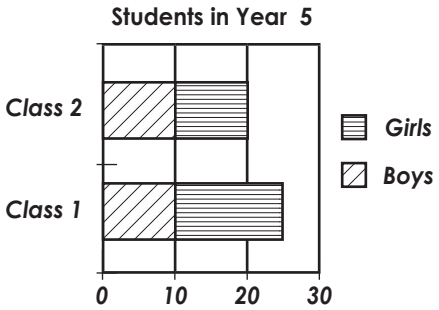
5. 3 + 5 + ... = 12

6. What comes next in the pattern?

3, 5, 9, 11, 15, 17, ...

7. What is the area of a rectangle that is 15 metres long and 3 metres wide? ..... m^2

Use the bar graph to answer Questions 8 and 9.



8. According to the chart, which class has an equal number of boys and girls in it?

.....

9. About how many more girls than boys does Class 1 have? ..... more girls

10. (a) 3.8 − 2.6 = ...

(b) 14.06 − 1.01 = ...

(c) 10.0 − 6.5 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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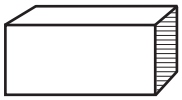
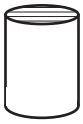
Minute 17

Name: ..... **Date:** .....

1. Ava's bill for her lunch was $7.30. She gave the waiter $10 and told him to keep the change as a tip. How much did the waiter get?

.....

2. Which of these shapes is a cylinder?

Circle: A  B  C 

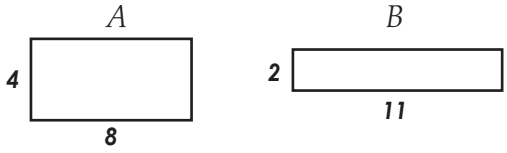
For Questions 3 and 4, write > , < or =. Use the bars to help you.

3. $\frac{3}{8}$ ○ $\frac{1}{4}$

4. $\frac{3}{4}$ ○ $\frac{9}{16}$

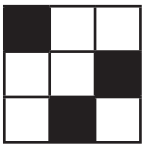
5. (3 × 2) + (6 ÷ 2) = ... + ... = ...

6. Which shape has the greater perimeter?



.....

7. A ball is dropped on the tiles to the right. What are the chances that it will land on a shaded tile?



.....

Use the chart to answer Questions 8 and 9.

Pocket money per week					
Sandy	$				
Chen	$	$	$	$	
Jackie	$	$	$		

$ sign = $2

8. Which student gets the greatest amount of pocket money each week? .....

9. Which student gets $6 each week? .....

10. (a) 300 − 50 = ...

.....

(b) 250 − 125 = ...

.....

(c) 450 − 200 = ...

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 18

Name: ..... **Date:** .....

1. Which of these has more days? .....

A 1 month B 3 weeks C 20 days

2. All of these shapes have a right angle except ..... .

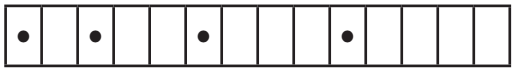
A  B  C  D 

3. Put these numbers in order from greatest to least. 5.06, 5.60, 0.056, 0.56

.....

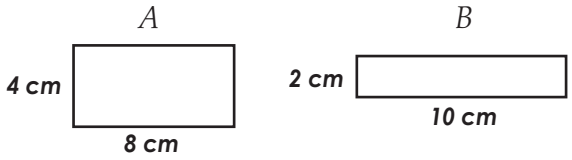
4. Circle all fractions that are equal to $\frac{1}{3}$. $\frac{2}{6}$ $\frac{2}{5}$ $\frac{3}{9}$ $\frac{3}{8}$

5. If the pattern continues, should the last box have a dot in it?



Circle: Yes or No

6. Which shape has the greater area?



.....

7. These five cubes were placed in a bag. What is the probability that a dark one would be pulled out of the bag first?

.....

8. ..... ÷ 4 = 13

9. (a) 12 + 6 + 8 = ... (b) 11 + 9 + 5 = ... (c) 7 + 9 + 13 = ...

10. (a) 15 – 4 – 6 = ... (b) 21 – 10 – 2 = ... (c) 20 – 6 – 3 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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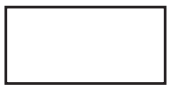
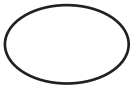
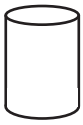
Minute 19

Name: ..... **Date:** .....

1. About how many centimetres long is this line segment? .....

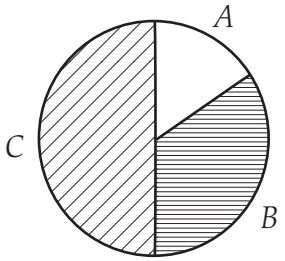
A 3 cm B 6 cm C 18 cm D 40 cm

2. Which is the three–dimensional shape? .....

A  B  C  D 

3. If $\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$, then $\frac{1}{3} \times \frac{4}{5} = \frac{\square}{15}$.

Use the pie graph to answer Questions 4 and 5.



4. How much of the circle does region C represent? .....

5. Is region A more or less than $\frac{1}{4}$ of the circle? .....

6. Finish the number that completes the problem.

2 ..... × 7 = 140

7. If $a = 4$, then $10 \times a =$ ..... .

8. If you rearrange the numbers of the year 2007, what is the largest number you can make?

.....

9. If (9)(7) = 63, then: (a) (5)(6) = ... (b) (3)(12) = ...

10. If $\frac{49}{7} = 7$, then: (a) $\frac{56}{8}$ = ... (b) $\frac{27}{9}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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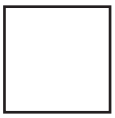
Minute 20

Name: ..... **Date:** .....

1. Which of these has more minutes?

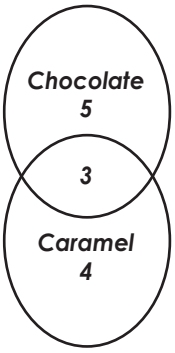
A 2 hours B 200 minutes .....

2. If you fit these two shapes together,  , which shape will you have?

A  B  .....

3. $\frac{2}{5} \times \frac{3}{7} = \frac{\square}{35}$

Use the Venn diagram to answer Questions 4 to 6.



4. How many people like chocolate only? ..... people

5. How many people like caramel only? ..... people

6. How many people like both? ..... people

7. $3 \times y = 9 \times 4$, so $y =$ ..... .

8. What comes next in the pattern? A C E G .....

9. (a) 14.3 − 6.8 = ...

(b) 15.8 − 4.6 = ...

(c) 23.4 − 0.5 = ...

10. (a) $(2 \times 3) \times 5 =$ ..... (b) $2 \times (2 \times 3) =$ ..... (c) $(2 \times 5) \times 7 =$ .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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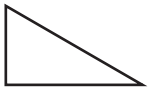
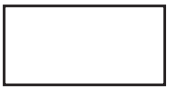
Minute 21

Name: ..... **Date:** .....

1. A national lottery might give out five ..... dollars as a top prize.

thousand million billion

2. Which of the following shapes has only two right angles? .....

A  B  C 

3. $\frac{1}{2}$ of 40 = ...

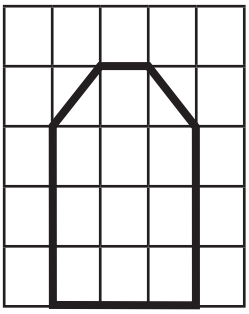
4. $\frac{1}{3} \times \frac{1}{8}$ = ...

5. $\frac{5+3+4}{6} = \frac{\square}{6}$ = ...

6. Describe the rule for this pattern: 2, 7, 6, 11, 10, 15 ...

Add ..... , subtract ..... .

7. Find the area of the hexagon. ..... square units



8. (2 × 3) × ..... = 30

9.
$$\begin{array}{r} 6000 \\ -\ 5386 \\ \hline \end{array}$$

.....

10.
$$\begin{array}{r} 4508 \\ -\ 1207 \\ \hline \end{array}$$

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 22

Name: ..... **Date:** .....

1. If it is 5.12 pm now, what time was it 24 minutes ago? ..... pm

2. Which of the following letters has one line of symmetry? **E F N**

.....

3. $\frac{1}{3}$ of 9 = ...

4. $\frac{1}{5} \times \frac{4}{7}$ = ...

5. 4(5 + 11) = (4 × 5) + (4 × 11) = ... + ... = ...

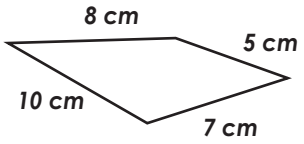
6. The third number in each of these rows is found by

.....

1	1	2
2	3	5
5	10	15
10	10	20

7. Find the perimeter of the shape.

..... cm



8. Find the sum of the second (shaded) column.

.....

1	2	9
5	8	6
4	3	7

9. (a) 16 ÷ 4 = ... (b) 18 ÷ 3 = ... (c) 15 ÷ 5 = ...

10. (a)
$$\begin{array}{r} 34 \\ \times\ 3 \\ \hline \cdots\cdots \\ \cdots\cdots \end{array}$$

(b)
$$\begin{array}{r} 56 \\ \times\ 4 \\ \hline \cdots\cdots \\ \cdots\cdots \end{array}$$

My score: ____ 10

My time: ..... minutes ..... seconds

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Minute 23

Name: ..... **Date:** .....

1. Round each number to the nearest 1000.

(a) 1238 ..... (b) 1850 ..... (c) 3320 .....

2. Which of the following letters has two lines of symmetry? **H W L V**

.....

3. $\frac{1}{4}$ of 12 = ...

4. If $\frac{1}{5} + \frac{1}{5} = \frac{a}{5}$, then a = ...

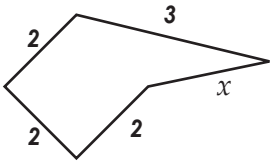
5. 3 + (4 × 2) + 6 = ...

6. Complete the pattern box.

2	*5*	*8*	*12*
10	*25*		

7. If the perimeter of this shape is 11 units,

then x = ... units.



8. The sum of the third (shaded) column is

..... .

1	*2*	*9*
5	*8*	*6*
4	*3*	*7*

9. (a) 9 × 6 = ... (b) 9 × 7 = ... (c) (9)(8) = ...

10. (a) ..... ÷ 4 = 9 (b) ..... ÷ 6 = 8 (c) ..... ÷ 5 = 7

My score: ____ / **10**

My time: ..... minutes ..... seconds

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Minute 24

Name: ..... **Date:** .....

1. (10 × 25) + (2 × 10) = ...

2. Which of the following represents a line?

Circle: A ⟷ B ——• C •——→

3. Which fraction represents 15 ÷ 2?

Circle: A $\frac{2}{15}$ B $\frac{15}{2}$ C $\frac{15}{15}$ D $\frac{2}{2}$

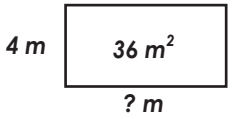
4. $\frac{2}{7} + \frac{3}{7}$ = ...

5. 4 + 7 + ... = 32

6. Fill in the empty square by following the pattern given.

3	8		6
9	24	30	18

7. If the width of a rectangle is 4 metres and the area is 36 m^2, then the length is ..... metres.



8. Find the sum of the first column.

1	2	9
5	8	6
4	3	7

.....

9. (a) 86 × 10 = ...

.....

(b) 93 × 10 = ...

.....

10. (a) 50 × 50 = ...

.....

(b) 60 × 60 = ...

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 25

Name: ..... **Date:** .....

1. Kelly has $10, which is $2 more than Tina has.
How much money does Tina have?

.....

2. Which of the following represents a ray?

Circle: A ⟷ B •—— C •——→

3. Which of the following represents the division problem 16 ÷ 9 as a fraction?

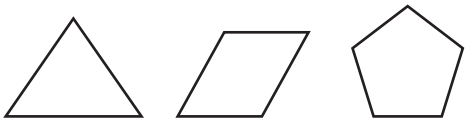
Circle: A $\frac{9}{16}$ B $\frac{16}{16}$ C $\frac{16}{9}$ D $\frac{6}{19}$

4. $\frac{5}{7} + \frac{6}{7}$ = ... = $\frac{\square}{\square}$

5. Use +, –, × or ÷ to complete the question.

7 ◯ 5 = 35

6. How many sides should the next shape in the pattern have?



..... sides

7. If every side of an octagon is 6 millimetres, what is the perimeter?

..... mm

8. What is the product of the first (shaded) row? .....

1	2	9
5	8	6
4	3	7

9. $3\overline{)14}$ r .....

10. (a) $\frac{1}{2}$ of 12 = ... (b) $\frac{1}{2}$ of 18 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 26

Name: ..... **Date:** .....

1. Tom is 7 years old. Zac is twice Tom's age. How old is Zac? .....

2. Which of the following represents a line segment?

Circle: A ⟷ B •—— C ——→

3. All of the following mean 21 divided by 9, except ..... .

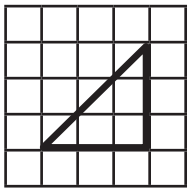
A $\frac{21}{9}$ B $\frac{9}{21}$ C $21 \div 9$ D $9\overline{)21}$

4. If $4\frac{1}{2} = \frac{9}{2}$, then $6\frac{1}{2} =$ $\frac{\square}{\square}$

5. $5 \times (8 + 2) =$ .....

6. Complete the pattern:
A B A A B A A A B A A A .....

7. Find the area of the triangle.



..... square units

8. Find the product of the numbers in the third row.

1	3	9
5	8	6
4	2	7

.....

9. (a) $7\overline{)420}$ (b) $3\overline{)1500}$

10. 8359
+ 6728
.....

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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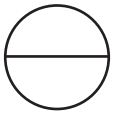
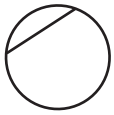
Minute 27

Name: ..... **Date:** .....

1. Show how you could make $0.85 with the fewest number of coins possible.

2. Which circle has its radius drawn on it?

Circle: A  B  C 

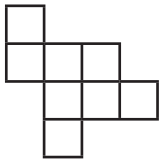
3. $\frac{8}{12} + \frac{3}{12}$ = ...

4. If $5\frac{1}{3} = \frac{x}{3}$, then x = ...

5. (5 × 6) + (3 × .....) = 36

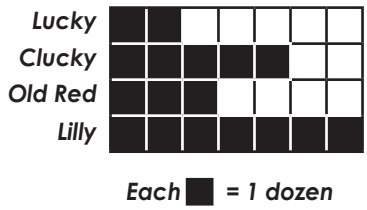
6. Continue the pattern. 64, 32, 16, 8, ... , ...

7. What is the area of the shape to the right? ..... square units



8. How many eggs did Lucky lay?

..... eggs



9. 9476
– 1355
.....

.....

10. 2761
+ 3478
.....

.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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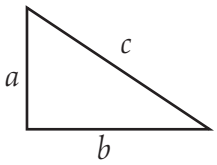
Minute 28

Name: ..... **Date:** .....

1. Sarah has three dozen cupcakes. How many cupcakes is this?

..... cupcakes

2. The hypotenuse is the longest side of a right triangle. Which letter is beside the hypotenuse in this triangle?



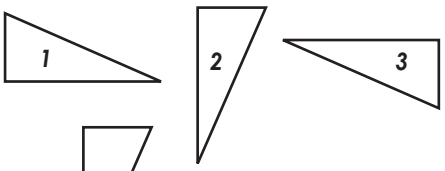
.....

3. $3\frac{1}{3} + 2\frac{1}{3} = \square\frac{\square}{3}$

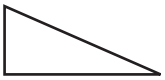
4. If $\frac{n}{6} = \frac{1}{2}$, then n = ...

5 Use + or × to complete the problem. $\frac{1}{5} \bigcirc \frac{2}{5} = \frac{3}{5}$

6. Which of the following triangles would be the next in this pattern? .....



A 

B 

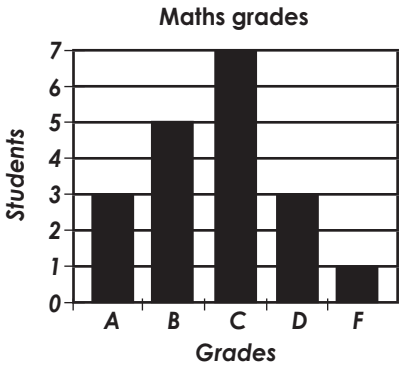
C 

7. Find the product of the third column.

9	3	1
5	8	6
4	2	7

.....

Use the bar graph to Questions 8 and 9.



8. According to the graph, how many students are getting an A for their maths grade?

.....

9. According to the graph, are there more Bs or Ds in the class? .....

10. (a) 6 × 0.2 = ... (b) 7 × 0.4 = ... (c) 8 × 0.5 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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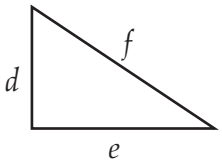
Minute 29

Name: ..... **Date:** .....

1. If today is Monday, what day will it be eight days from now?

.....

2. Which letter is beside the hypotenuse?



.....

3. Write as an improper fraction. $8\frac{1}{3}$ = ...

4. Use >, < or = to complete the problem.

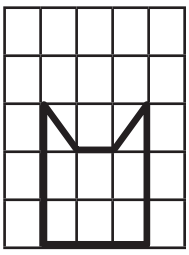
0.55 ◯ $\frac{1}{2}$

5. Use + or × to complete the problem.

$\frac{1}{5}$ ◯ $\frac{2}{5} = \frac{2}{25}$

6. Continue the sequence.

Z, 1, Y, 2, X, 3 ..... , ...



7. Find the area of the shape.

..... square units

8. If the area of a square is 36 square metres, what is the length of its sides?

..... metres

9. (a) 1.3 + 0.2 + 0.4 = ...

(b) 0.8 + 0.2 + 0.7 = ...

10. (2)(4)(5) = (2) × (4) ×(5) = 40, so:

(a) (4)(5)(1) = ...

(b) (5)(6)(0) = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 30

Name: ..... **Date:** .....

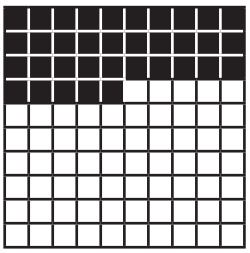
1. If tomorrow is the 4th of June, what will the date be three days from today?

.....

2. The following three numbers are the side lengths of a right–angle triangle: 5, 12 and 13. Which number is the length of the hypotenuse?

.....

3. $\frac{4}{9} \times \frac{1}{3} =$ .....



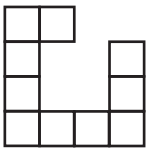
Use the grid to answer Questions 4 and 5.

4. The grid has 100 boxes.
How many of them are shaded? .....

5. How many boxes in the grid are not shaded? .....

6. $4(3 + 9) = (4 \times 3) + (4 \times 9) =$ ..... + ... = ...

7. What is the perimeter of the shape to the right?



..... units

8. Complete the chart.

x	*8*	*10*	*16*
y	*4*	*5*	

9. Use >, <, or = to complete the problem. 0.75 ◯ $\frac{3}{4}$

10. (a) $\frac{1}{5} \times \frac{1}{4} =$ ..... (b) $\frac{1}{7} \times \frac{2}{3} =$ ..... (c) $\frac{1}{10} \times \frac{3}{4} =$ .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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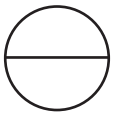
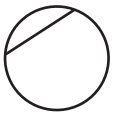
Minute 31

Name: ..... **Date:** .....

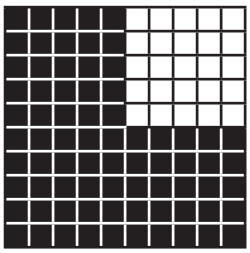
1. If today is Tuesday, what day will it be three weeks from tomorrow?

.....

2. Which circle has a diameter drawn on it?

Circle: A  B  C 

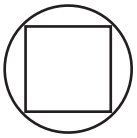
Use the grid to answer Questions 3 and 4.



3. How many boxes in the grid are shaded? .....

4. What fraction of the grid is shaded? .....

5. Which would have the greater perimeter, the circle or the square?



.....

6. 2 × 2 × 2 × ..... = 40

7. Continue the sequence. 0, 5, 1, 6, 2, 7, ... , ...

8. The following cubes are placed into a bag. What is the probability that a cube with the letter B will be drawn from the bag?

.....

9. (a) 3.65 × 100 = ... (b) 2.7 × 100 = ...

10. (a) $4\overline{)1236}$ (b) $5\overline{)1235}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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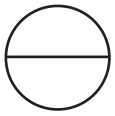
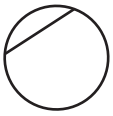
Minute 32

Name: ..... **Date:** .....

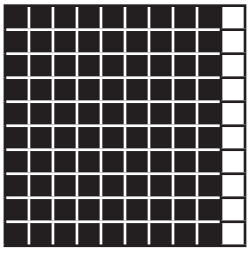
1. Ted gets paid every two weeks. Is it possible for Ted to get paid three times in one month? Circle:

Yes or No

2. Which circle has a chord drawn on it that is not a diameter?

Circle: A  B  C 

3. $\frac{8}{5} - \frac{3}{5} - \frac{2}{5}$ = ...

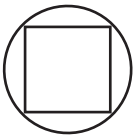


Use the grid to answer Questions 4 and 5.

4. What percentage of the grid is shaded? .....%

5. What percentage of the grid is not shaded? .....%

6. Which would have the greater area, the circle or the square?



.....

Use the chart to answer Questions 7 to 9.

Letter	*Value*
a	*2*
b	*4*
c	*0*
d	*5*
e	*8*

7. $a + b$ = ...

8. $b \times d$ = ...

9. $\frac{e}{b}$ = ...

10. (a) $\frac{1}{5} + \frac{2}{5}$ = ... (b) $\frac{1}{5} \times \frac{2}{5}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 33

Name: ..... **Date:** .....

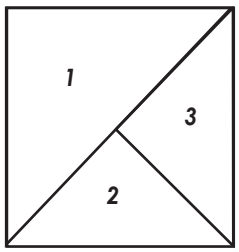
For Problems 1 to 3, circle the greater amount.

1. 2 months or 10 weeks

2. 9 × 50c or $5

3. 2.7 cm or 25 mm

Use the diagram to answer Questions 4 and 5.



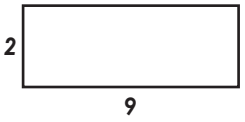
4. Triangle 1 is ..... of the square.

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

5. Triangle 2 is ..... of the square.

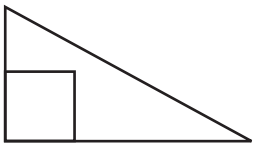
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

6. Sally says the perimeter of the rectangle is 22 units. Supriya says that it is 18 units. Who is correct?



.....

7. Which shape has the greater area: the triangle or the square?



.....

Use the chart to answer Questions 8 to 10.

Letter	*Value*
a	*24*
b	*28*
c	*32*
d	*36*
e	

8. $d - a$ = ...

9. $\frac{c+8}{5}$ = ...

10. If the pattern continues, what would be the value of the letter e? .....

My score: ____ **10**

My time: ..... minutes ..... seconds

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Minute 34

Name: ..... **Date:** .....

1. The number 1 with three zeros after it would represent ..... .

A one thousand B ten thousand C one million

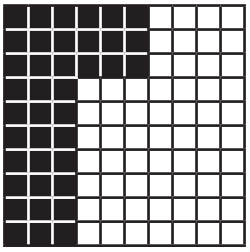
2. Match each figure with its correct name. rhombus square trapezium

(a)  .....

(b)  .....

(c)  .....

Use the grid to answer Questions 3 and 4.



3. What percentage of the grid is shaded? .....%

4. If 50% of the grid is supposed to be shaded, how many more boxes would need to be shaded?

..... boxes

5. 16 ÷ 2 ÷ 2 ÷ 2 = ...

5 394 600
5 494 600
5 594 600

6. Write the next number in the sequence.

7. An electric fence around a property would be most like the

..... of the property.

area volume perimeter

8. 4 × 5 = ... + 5

9. (a) 2.36 × 10 = ... (b) 0.34 × 100 = ... (c) 46 × 10 = ...

10. (a) $\frac{1}{2}$ of 40 = ... (b) $\frac{1}{2}$ of 50 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 35

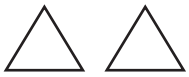
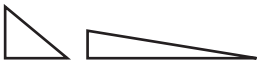
Name: ..... **Date:** .....

1. The number 435 should be written as:

A four hundred and thirty–five. B four hundred thirty five.

C four hundred thirty–five.

2. Which set of shapes shows two figures that are NOT congruent (same size and shape)? .....

A  B  C  D 

For problems 3 to 5, circle the larger amount.

3. $\frac{1}{4}$ or 75% **4.** 25% or $\frac{1}{2}$ **5.** $\frac{9}{10}$ or 95%

6. The following cards were numbered as shown, placed face down on a table, and then mixed up. If a card is turned over randomly, what number would most likely appear?

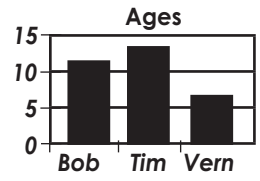
8	6	5	8	2

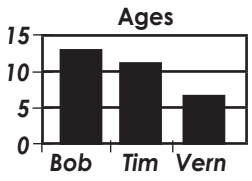
.....

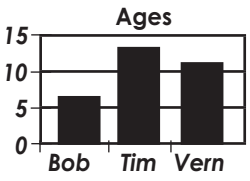
7. 4 × 9 = ... × 6

8. Which of the following graphs shows these ages? Bob = 12, Tim = 11, Vern = 6

Circle:

A 

B 

C 

9. (a) 14 × 2 = ... (b) 21 × 2 = ... (c) 30 × 2 = ...

10. (a) $\frac{1}{3} \times \frac{1}{3}$ = ... (b) $\frac{1}{3} + \frac{1}{3}$ = ... (c) $\frac{1}{3} - \frac{1}{3}$ = ...

My score: ____ / 10 **My time:** ..... minutes ..... seconds

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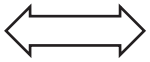
Minute 36

Name: ..... **Date:** .....

1. About how wide is this paper? .....

A 21 metres B 21 millimetres C 21 centimetres

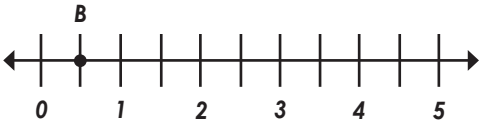
2. How many lines of symmetry does this shape have?



.....

3. $\frac{1}{8} + \frac{3}{8} + \frac{3}{8} =$ .....

4. What fraction does the letter B represent?



.....

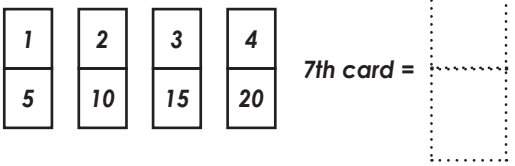
For Problems 5 to 7, cross out the number that does NOT belong on the list with the others.

5. 2 8 10 13

6. 7 4 11 19

7. 6 15 25 35

8. The four cards form the start of a pattern. What would the seventh card look like?



9.

..... + 14 ..... = 22 .....

10. Complete the table by finding the sum and product of the two numbers in each row.

	Number	Number	Sum	Product
(a)	5	8		
(b)	7	9		

My score: ____ / 10

My time: ..... minutes ..... seconds

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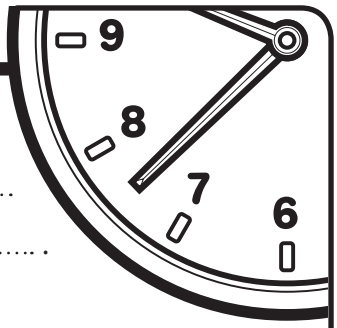
Minute 37



Name: ..... **Date:** .....

1. The length of a song on the radio is most likely to be about ..... .

A 3 minutes B 3 seconds C 30 minutes D 3 hours

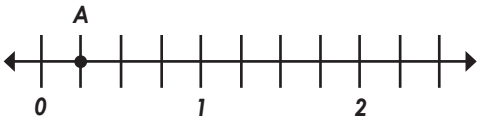
2. Match each figure with its correct name. line line segment ray

(a) .....

(b) .....

(c) .....

3. What fraction does the letter A represent? .....



4. Which number should go in the gap? 340, 344, ... , 352

Circle: A 345 B 346 C 352 D 348

5. 200 000 + 50 000 + 8000 + 100 + 4 is the expanded form of ..... .

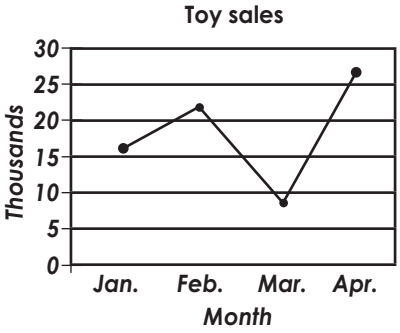
A 205 841 B 258 140 C 258 104 D 250 814

6. I am an odd number between 10 and 20.
I can be divided by 3. What number am I? .....

7. As Martha wrapped a present in wrapping paper,
she happened to think that the paper was most like the ..... of the box.

A surface area B perimeter C volume

Use the graph to answer Questions 8 and 9.



8. According to the graph, sales in March were:

A up. B down.

C about the same as the other months.

9. In which month were the sales the best? .....

10. (a) 56.2 ÷ 10 = ... (b) 426 ÷ 10 = ... (c) 5.8 ÷ 10 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 38

Name: ..... **Date:** .....

1. Which might be reasonable dimensions of a bathroom? .....

A 40 mm × 30 mm B 4 m × 3 m C 9 cm × 12 cm

2. Which set of shapes show two figures that are congruent? Circle:

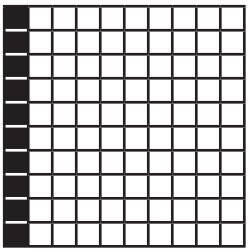
A  B  C  D 

3. Write the next fraction in the sequence.

$\frac{1}{12}, \frac{3}{12}, \frac{5}{12}, ...$

4. $\frac{1}{2} \times \frac{3}{4} \times \frac{5}{6} =$ .....

Use the grid to answer Questions 5 and 6.

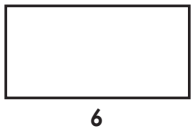


5. What percentage of the grid is shaded? .....%

6. How many more squares would have to be filled in so that half of the grid is shaded? ..... squares

7. I am an even number between 1 and 10. I can be divided by 3 evenly. What number am I? .....

8. Justine says that the area of the rectangle is 24 square units. Marcie says that it is 20 square units. Who is correct?



.....

9. (a) $7 \times 7 =$ ..... (b) $8 \times 8 =$ ..... (c) $(6)(6) =$ .....

10. (a) $7 \div 0.7 =$ ..... (b) $8 \div 0.8 =$ ..... (c) $6 \div 0.6 =$ .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 39

Name: ..... **Date:** .....

1. 400 000 + 5000 + 800 + 6 is the expanded form of ..... .

A 450 860 B 450 806 C 405 860 D 405 806.

2. How many sides does each shape have?

(a) pentagon: ..... (b) octagon: ..... (c) decagon: .....

3. If 45% = 0.45, then 55% = ...

4. 0.3 = ...%

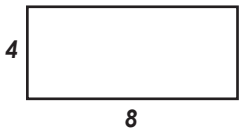
5. Which number is twice as much as 2400?

Circle: A 4800 B 1200 C 4400 D 480

6. What is the error in the problem 32 × 9 = 281?

..... .

7. Sally believes that the perimeter of this rectangle is 32.
What mistake did she make?



.....

Use the chart to answer Questions 8 to 10.

a	b	c
5	4	6

8. $a + b$ = ...

9. $b \times c$ = ...

10. $\frac{(a)(c)}{2}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 40

Name: ..... **Date:** .....

1. The number 1 with six zeros after it would represent:

A one thousand. B ten thousand. C one million.

2. First do the addition then reduce the fraction.

$$\frac{3+9+2}{8+10+2} = \frac{\square}{\square} = \frac{\square}{\square}$$

3. Write as a decimal. 61% = ...

4. Write as a percentage. 0.47 = ...%

5. If you add 5 to the product of 4 and 6, you get ..... .

6. Complete the pattern by filling in the bottom box.

5	+	*4*
	9	
2	+	*5*
	7	
1	+	*4*

7. 3 + (2 × .....) = 17

For problems 8 to10, round to the bold place value.

8. 3**3**.28 .....

9. 0.0**5**61 .....

10. **3**47.5 .....

My score: ____ / **10**

My time: ..... minutes ..... seconds

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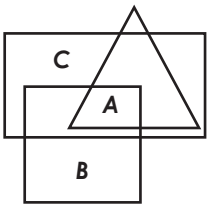
Minute 41

Name: ..... **Date:** .....

1. If you rearrange the numbers in the year 1942, what is the smallest number you can make? .....

Use the diagram to answer Questions 2 and 3.



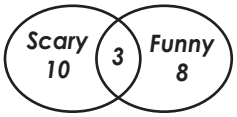
2. Which letter is outside the rectangle but inside the square? .....

3. Which letter is inside all three shapes? .....

4. Complete the chart.

	Fraction	*Decimal*	*Per cent*
(a)	$\frac{3}{4}$		
(b)		*0.1*	

Favourite kinds of movies



Use the Venn diagram to answer Questions 5 and 6.

5. How many people prefer scary movies only? .....

6. How many people took part in this survey? .....

7. The y numbers in this chart are ..... times the x numbers.

x	*3*	*8*	*12*
y	*12*	*32*	*48*

For Problems 8 to 10, estimate to find the best answer.

8. 22 + 51 is approximately:

A 70 B 80 C 60 D 100.

9. 96 + 103 is approximately:

A 100 B 300 C 200 D 400.

10. 21 × 29 is approximately:

A 500 B 400 C 300 D 600.

My score: ____ / **10**

My time: ..... minutes ..... seconds

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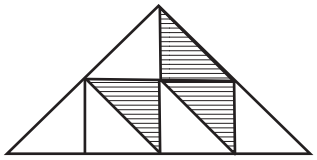
Minute 42

Name: ..... **Date:** .....

1. The number 1 with four zeros after it would represent:

A one thousand. B ten thousand. C one million.

Use the diagram to answer Questions 2 and 3.



2. What fraction of the large triangle is shaded? .....

3. If one more triangle were shaded, what percentage of the large triangle would be shaded?

.....

4. Complete the chart.

	Fraction	*Decimal*	*Per cent*
(a)			*25%*
(b)		*0.3*	

5. One more than the product of 8 and 10 is ..... .

6. Which of the following is NOT a multiple of 6? 6 12 24 32 36

.....

7. $\frac{1}{3}$ of y = 10, so y = ...

8. Complete the pattern. 1, 3, 6, 8, 11, 13, 16, ...

9. (a) $\frac{1}{8} + \frac{3}{8}$ = ... (b) $\frac{1}{8} \times \frac{3}{8}$ = ...

10. (a) 20 × 10 = ... (b) 30 × 5 = ... (c) 40 × 2 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 43

Name: ..... **Date:** .....

1. The correct way to write 12.36 would be:

A twelve and thirty–six hundredths.

B twelve and thirty–six thousandths.

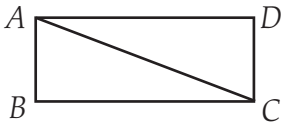
C twelve and thirty–six tenths.

D twelve and thirty and six hundredths.

2. Put these three angles in order from least to greatest: right, obtuse, acute.

.....

3. Which two letters represent the hypotenuse of a triangle in this figure?



A $\overline{AD}$ B $\overline{AB}$

C $\overline{BC}$ D $\overline{AC}$ .....

For Problems 4 to 6, cross out the item that does NOT belong.

4.	4	8	12	15
5.	triangle	square	cylinder	circle
6.	days	kilometres	weeks	months

7. If $7 \times 6 = 5 \times 8 + x$, then x = ...

Use the chart to answer Questions 8 to 10.

a	b	c
3	5	30

8. (a) $a \times b$ = ... (b) $a \times c$ = ...

9. (a) $\frac{c}{a}$ = ... (b) $\frac{c}{b}$ = ...

10. $a + b + c$ = ...

My score: ____ / **10**

My time: ..... minutes ..... seconds

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Minute 44

Name: ..... **Date:** .....

1. The 1984 Olympic Games were in Los Angeles, USA. If the Olympics occur every four years, which of these years did not have an Olympic Games?

Circle: A 1988 B 1996 C 2002 D 2004

2. Each side of the cube is called a face.

How many faces does a cube have? ..... faces 

3. If 3. $\overline{8}$ means 3.88888888 …, how would you write 1.77777777 … ? .....

4. 20% + 30% = ...%

5. If $\frac{1}{2} \times 10 = 8 - x$, then x = ...

For Problems 6 to 8, estimate to find the best answer. (Hint: '≈' means 'approximately')

6. 25 + 72 + 40 ≈ .....

Circle: A 120 B 140 C 160.

7. \$1.80 + \$2.99 + \$0.85 ≈ .....

Circle: A \$6 B \$3 C \$4.

8. 8 + 11 + 12 + 17 ≈ .....

Circle: A 30 B 40 C 50.

9. (a) $\frac{7}{9} - \frac{4}{9}$ = ... (b) $\frac{7}{9} + \frac{4}{9}$ = ...

10. Change to improper form.

(a) $9\frac{1}{2}$ = ... (b) $10\frac{1}{4}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 45

Name: ..... **Date:** .....

1. How many 50–cent tins of beans can be purchased with $5?

..... tins

2. How many faces does this shape have?

..... faces

3. What is another way to write 0.8222222222 …? .....

4. Write $\frac{25}{100}$ in decimal form. .....

5. If 12 + m = 22, then m = ...

6. Complete the pattern. A B B C C C ....

7. What is the probability of choosing a red marble from a jar containing 1 red and 99 blue ones?

.....

8. What is the radius of a circle with a diameter of 33 cm?

..... cm

9. (a) 0.952 − 0.841 = ...

(b) 0.855 − 0.704 = ...

10. (a) $\frac{100}{10}$ ..... (b) $\frac{1000}{10}$ ..... (c) $\frac{10\,000}{10}$ .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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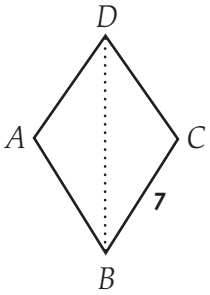
Minute 46

Name: ..... **Date:** .....

1. Using the numbers 1–6, fill in the blanks to create the largest number possible:

....

2. If the dotted line is a line of symmetry, how long is side $\overline{AB}$?



..... units

3. Write using bar notation. 0.39393939 ... = ...

4. If $\frac{x}{100}$ = 0.3, then x = ...

5. 10% + 25% + 20% = ...%

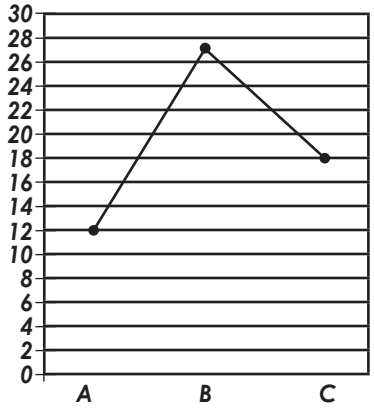
x	y
2	10
3	15
5	

Use the chart to answer Questions 6 and 7.

6. Complete the chart. Where x = 5, y = ...

7. If y = 35, then x = ...

8. Use the graph to find the values of A, B and C.



A = ...

B = ...

C = ...

9. (a) $\frac{1}{10} + \frac{1}{10}$ = ...

(b) $\frac{1}{10} \times \frac{1}{10}$ = ...

10. (a) (0.5)(0.6) = ... (b) (0.4)(0.7) = ...

My score: ____ 10

My time: ..... minutes ..... seconds

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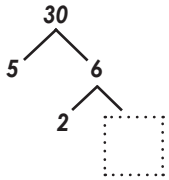
Minute 47

Name: ..... **Date:** .....

1. Using the numbers 1–6, fill in the blanks to create the smallest number possible.

....

2. Fill in the missing number in the factor tree.



3. Is 34.82 closer to 34 or 35?

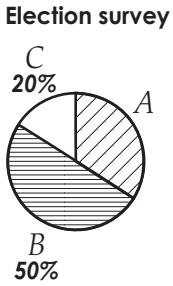
.....

4. Eight hundredths plus nine hundredths equals ..... .

5. $\frac{1}{2}$ + 0.2 = ...

6. 20.4% + 20.5% + 4.1% = ...%

Use the pie graph to answer Questions 7 and 8.



7. What percentage of the votes did Candidate A receive? .....

8. If Candidates A and C combined their votes, they would have ..... Candidate B.

A more than B less than C the same as

9. (a) 0.98 × 10 = ... (b) 0.98 × 100 = ... (c) 0.98 × 1000 = ...

10. (a) $\frac{5}{100}$ = ...% (b) $\frac{15}{100}$ = ...% (c) $\frac{85}{100}$ = ...%

My score: ____ **10**

My time: ..... minutes ..... seconds

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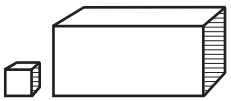
Minute 48

Name: ..... **Date:** .....

1. Mike can ride his bike at 15 kilometres per hour. How many kilometres could he reasonably ride in one day?

Circle: A 350 B 250 C 500 D 100

2. Would five smaller boxes fit inside the larger box?



Circle: Yes or No

3. 0.4 + 0.3 + 0.2 = ...

4. Circle the greater value. $0.\overline{7}$ or 0.7

5. $\frac{3}{4}$ + 0.20 + 0.05 = ...

For problems 6 to 8, round to the place value of the bold number.

6. 0.**6**15 .....

7. **9**3 .....

8. 10**5**.87 .....

9. Find the areas of the rectangles described in the chart.

	rectangle	*length*	*width*	*area*
(a)	*1*	*6 units*	*7 units*	*units²*
(b)	*2*	*9 units*	*10 units*	*units²*
(c)	*3*	*5 units*	*9 units*	*units²*

10. Circle the problems that have whole number answers (not decimal or fractional answers).

A $24 \div 5$ B $\frac{200}{10}$ C 0.16×100 D $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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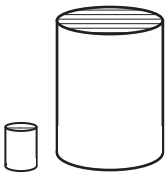
Minute 49

Name: ..... **Date:** .....

1. It took Jill two hours to drive 100 kilometres. What was her average speed?

..... kilometres per hour

2. Would 10 smaller cans fit inside the larger can?



Circle: Yes or No

3. Circle the greater value. $0.\overline{7}$ or $\frac{3}{4}$

4. Complete the chart.

	Fraction	Decimal	Per cent
(a)			40%
(b)	$\frac{1}{4}$		

5. $(y + 50) = (80 + 90)$, so $y =$ ..... .

6. Complete the chart.
(Hint: The product of each column equals the same value.)

1	2	3	4
24	12	8	

7. \$100.00 – \$29.85 = ...

8. Complete the pattern. AC BD CE DF .....

9. Circle the fractions that are equal to $\frac{1}{5}$. $\frac{2}{10}$ $\frac{4}{20}$ $\frac{5}{20}$ $\frac{10}{40}$

10. How many days are in each of the following?

(a) 2 weeks = ... days

(b) 1 year (not a leap year) = ... days

(c) 3 days more than 5 weeks = ... days

My score: ____ / 10

My time: ..... minutes ..... seconds

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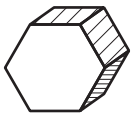
Minute 50

Name: ..... **Date:** .....

1. A case holds four boxes. A box holds five cartons. How many cartons are in two cases?

..... cartons

2. How many faces does this shape have? .....



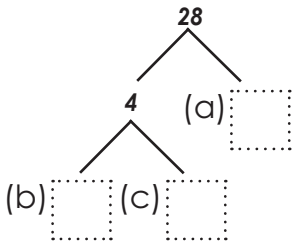
Write < , > or = to complete Questions 3 to 5.

3. 8.13 ◯ 8.4

4. 0.004 ◯ 0.05

5. $0.\overline{4}$ ◯ 0.4

6. Complete the factor tree.

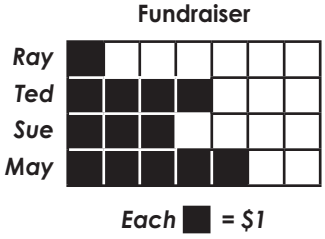


7. Can the numbers you wrote in the empty boxes in Problem 6 be divided by numbers other than 1 and the numbers themselves?

Circle: Yes or No

8. How much money was raised altogether?

$.....



9. (a) 3 + ... = 18 (b) 3 × ..... = 18 (c) 18 ÷ ..... = 3

10. a + 1 = 1000, so a = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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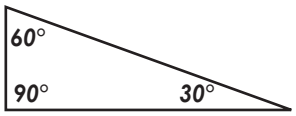
Minute 51

Name: ..... **Date:** .....

1. Joanne has 15 trading cards. Jackie has 8. If Joanne gives Jackie five of her cards, how many will each girl have?

Joanne: ..... Jackie: .....



2. What is the total number of degrees in a triangle? .....

3. Write using bar notation. 0.38888888 ... = ...

4. If $\sqrt{9} = 3$, then $\sqrt{16}$ = ...

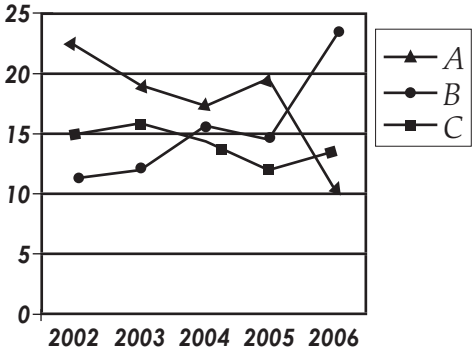
5. Becky is the same height as Samir. Samir is the same height as Mandy. Are Becky and Mandy the same height?

Circle: Yes or No

6. If $3 \times y + 2 = 11$, could $y = 5$?

Circle: Yes or No

Investment in millions of dollars per year



Use the graph to answer Questions 7 and 8.

7. Which company (A, B or C) made the poorest investment in one year? .....

8. Which company (A, B or C) made the best investment in one year? .....

9. How many sides does each of these shapes have?

rectangle: ..... pentagon: ..... octagon: .....

10. Change each mixed fraction to an improper fraction.

(a) $5\frac{1}{3}$ ..... (b) $6\frac{2}{3}$ ..... (c) $3\frac{1}{4}$ .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 52

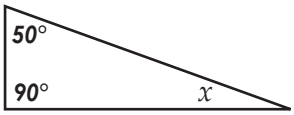
Name: ..... **Date:** .....

1. Which of the following numbers is one billion? Circle:

A 1 000 000 B 1 000 000 000 C 1 000 000 000 000

2. What is the value of x?

.....



3. Add brackets to this number sentence.

70 ÷ 10 × 5 ÷ 1 = 35

4. $\sqrt{25}$ = ...

5. The letters A, B, and C can be arranged in six ways.
Five ways are listed below. Find the sixth way.

ABC ACB BAC BCA CAB .....

Solve problems 6 to 8 if a = 10, b = 5 and c = 3.

6. 12.4 × a = ...

7. $\frac{a+b}{c}$ .....

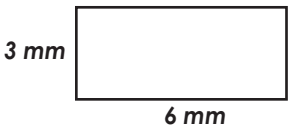
8. $a + b \times c$ = ...

9. In Problem 8, which operation should you do first?

Circle: add subtract multiply divide

10. (a) What is the area of this rectangle?

..... mm^2



(b) What is the perimeter of this rectangle?

..... mm

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 53

Name: ..... **Date:** .....

1. Jason drove for three hours at an average speed of 65 kilometres per hour.

How far did he go? ..... kilometres

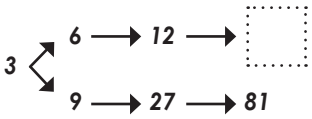
2. The interior angles of a triangle add up to ..... degrees.

3. Circle any of the following that are equal to $\frac{3}{10}$.

0.3 3% $\frac{6}{10}$ 

4. $\sqrt{36}$ = ...

5. Fill in the missing number.



6. Two times a number is 14. What is the number? .....

7. If the pattern continues,
should the last box be black or white? ..... 

8. How many 20c coins make up $50.00? .....

9. (a) 67 − 28 = ...

.....

(b) 92 − 45 = ...

.....

(c) 101 − 33 = ...

.....

10. 6000 – a = 300 × 10, so a = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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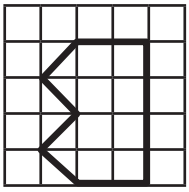
Minute 54

Name: ..... **Date:** .....

1. Michaela makes $5.50 per hour at her job.
How much does she make in an eight–hour day? .....

2 What is the area of the shape?



..... square units

3. $\frac{1}{2}$ (3 × 4 + 4) = ...

4. $\sqrt{36} \times \sqrt{81}$ = ...

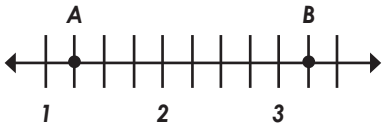
5. If a coin were tossed on the grid in Problem 2,
would it have a better chance of landing inside or outside of the shape? .....

6 Five more than five times a number is 30. What is the number? .....

7. Add brackets to this problem to make it true.

3 + 9 × 4 = 48

8. Point B is two units larger than Point A.
What number represents the value of Point B?



.....

9. Draw the next B in the pattern. **B ʁ ꟴ** .....

10. Find the sum of each row.

				Sum
(a)	*3*	*5*	*7*	
(b)	*6*	*8*	*1*	
(c)	*9*	*4*	*2*	

My score: ____ / 10

My time: ..... minutes ..... seconds

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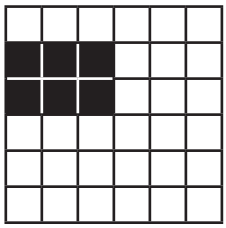
Minute 55

Name: ..... **Date:** .....

1. Round 5649 to the nearest:

(a) 10 ..... (b) 1000. .....

2. If both the length and width of this rectangle are doubled, what will the new area be?



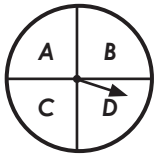
..... square units

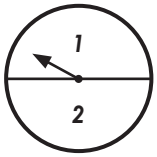
3. Circle the two smallest numbers.

3.68 3.06 3.7 3.08 36.8 3.068

4. If $7^2 = 7 \times 7 = 49$, then 8^2 = ... = ...

Use the spinners to solve Problems 5 and 6.





5. How many possibilities could occur if both spinners are spun?

.....

6. What is the probability of getting an A and then a 2? .....

7. Fill in the missing prime numbers between 2 and 30.

2	*3*		*7*	*11*	*13*		*19*	*23*	

Use > , < or = to solve problems 8 to 10.

8. $\sqrt{100}$ ◯ $\frac{20}{2}$

9. 2.8 ◯ $2.\overline{7}$

10. $\frac{2}{3}$ ◯ $\frac{1}{2}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 56

Name: ..... **Date:** .....

Use the calendar to solve Problems 1 and 2.

MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

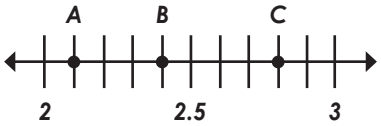
1. Sixteen days after 4 May would be a:

Circle: A Monday. B Tuesday.

C Wednesday. D Thursday.

2. Which Tuesday has a date that is a prime number? .....

3. Match the letters to the numbers using the number line.



..... = 2.4 ..... = 2.8 ..... = 2.1

4. Cross out any prime numbers in the grid.

5	8	12	15	21	23

5. What is the probability that a student pulled at random from Class 1 is a boy?

	Boys	Girls	Total
Class 1	10	15	25
Class 2	18	12	30

.....

6. What would the next shape in this pattern be?

Circle: A  B  C 

For Problems 7 to 10, choose the correct mathematical expression to match the description.

$\frac{n}{2}$ $\sqrt{n}$ $2n$ n^2

7. Twice a number. .....

8. A number to the second power. .....

9. A number divided by 2. .....

10. The square root of a number. .....

My score: ____ 10

My time: ..... minutes ..... seconds

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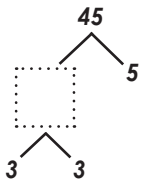
Minute 57

Name: ..... **Date:** .....

1. Monique weighs 64 kilograms.
When she is holding her little brother, she weighs 76 kilograms.
How much does Monique's baby brother weigh?

..... kilograms

2. Complete the factor tree.



3. What is the common denominator for $\frac{1}{3} + \frac{1}{2}$? .....

4. $(3 + 5)^2 = (.....)^2 = ...$

5. What is the probability that a student pulled at random from Class 1 is a girl?

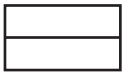
.....

	Boys	Girls	Total
Class 1	10	15	25
Class 2	18	12	30

6. Which one of the following solves this problem? $(2 \times y) + 3 = 15$.

Circle: A $y = 5$ B $y = 4$ C $y = 7$ D $y = 6$

7. Complete the analogy.  is to  as  is to ..... .

A  B  C 

8. Find two pairs of different (unequal) odd numbers that complete the equation.

..... + ... = 10 and ..... + ... = 10

9. Fill in the missing numbers to complete the chart.

Numbers	Sum	Difference	Product
1,4	5		4
2,8	10	6	

10. If $x^2 = 16$, then x = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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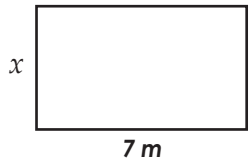
Minute 58

Name: ..... **Date:** .....

1. A new car is available in five different colours and with two different types of engines. How many different combinations of colours and engines could you order?

.....

2. The perimeter of the rectangle is 24 m.



What is the width? x =..... m

3. What is the area of the rectangle in Problem 2? (Hint: Use the width you found.)

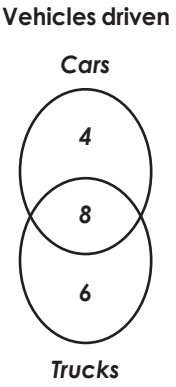
..... m^2

	Boys	Girls	Total
Class 1	10	15	25
Class 2	18	12	30

4. $(3 + 7)^2$ = ...

5. What is the total number of boys in these classes? .....

Use the Venn diagram to answer Questions 6 and 7.



6. (a) ..... people drive only cars.

(b) ..... people drive only trucks.

(c) ..... people drive both cars and trucks.

7. How many people took part in the survey in Problem 6?

..... people

8. Fill in the missing numbers. 3 × 4 = ... ÷ 6 = ...

9. 5122
+ 2308
.....

.....

10. (a) $\frac{1}{5} + \frac{3}{5}$ = ... (b) $\frac{1}{5} \times \frac{3}{5}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 59

Name: ..... **Date:** .....

Use the calendar to solve Problems 1 and 2.

MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

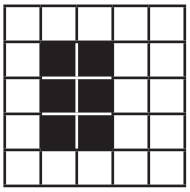
1. Three weeks later than Friday 2 May

is Friday ..... May.

2. Amrita gets paid every Friday. How many times will she get paid in the month of May?

..... times

3. If each square is two units long, find the perimeter of the shaded rectangle.



..... units

4. $\sqrt{3(4 + 8)}$ = ...

5. Write the next card in the pattern.

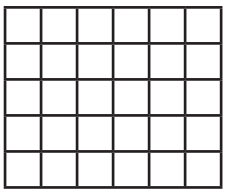
2	4	6	8
5	8	11	14

Fifth Card = ...

6. Which of these numbers should go inside the box to make the equation true? $\frac{\square + 4}{2} = 10$

Circle: A 12 B 20 C 16

7. If 10% of this grid was shaded, how many squares would be shaded?



..... squares

Evaluate problems 8 to 10 if $a = 2$, $b = 4$ and $c = 12$.

8. The sum of a and c = ...

9. 6^a = ...

10. $\frac{c}{3 \times b}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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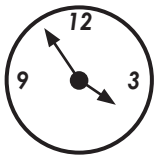
Minute 60

Name: ..... **Date:** .....

1. What is the best estimate of the time on this clock?



Circle: A 3.55 B 4.55 C 2.55 D 3.15

2. Write the correct fraction. $12 \times \frac{\square}{\square} = 6$

3. Which shape is congruent to this one?

Circle: A  B  C 

4. $3^2 + 2^2 =$ .....

5. What is the total number of girls in these classes?

	Boys	Girls	Total
Class 1	10	15	25
Class 2	18	12	30

..... girls

6. If each of these hearts could be coloured red, pink or blue, how many different ways could they be coloured? (Hint: More than one heart could be the same colour.)

..... 

For Problems 7 to 10, choose the correct description to match the mathematical expression.

7. $\frac{n}{3}$ .....

8. $3n$ .....

9. n^3 .....

10. $n + 3$ .....

A	*A number to the third power.*
B	*Three times a number.*
C	*The sum of a number and three.*
D	*A number divided by three.*

My score: ____ / 10

My time: ..... minutes ..... seconds

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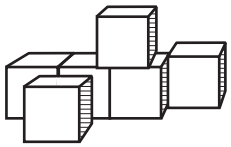
Minute 61

Name: ..... **Date:** .....

1. Round each number to the bold place value.

(a) 1**2**8 = ... (b) **3**158 = ... (c) 48**8**.37 = ...

2. How many cubes are in this shape?



.....

x	y
0.2	0.8
0.3	1.2
0.5	2
0.7	2.8

3. The numbers in the y column are ..... times bigger than those in the x column.

4. What number solves this equation?

..... × (3 + 8) = 55

5. Fifty tickets were sold for the lottery. Jackson bought five tickets. What are the chances he will win?

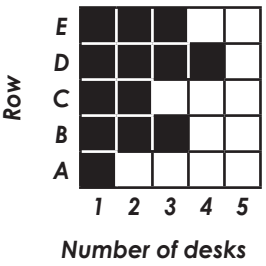
.....

1884
2384
2884

6 Write the next number in the sequence.

7. $2(\sqrt{25} \times \sqrt{25})$ = ...

Use the bar graph to solve Problems 8 and 9.



8. How many desks were in row A? .....

9. Which two rows had the same number of desks?

..... and .....

10. What is the remainder in each problem?

(a) $9\overline{)76}$ r = ... (b) $6\overline{)59}$ r = ... (c) $4\overline{)89}$ r =.....

My score: ____ / 10

My time: ..... minutes ..... seconds

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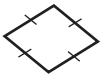
Minute 62

Name: ..... **Date:** .....

1. How many kilometres might a good runner be able to run in one hour?

Circle: A 20 B 30 C 10

2. Which of these shapes is a rhombus?

Circle: A  B  C 

3. Use + or × to complete the problem.

$\frac{1}{6} \bigcirc \frac{4}{6} = \frac{5}{6}$

4. $2 \times 2 \times 2 \times 3^2 = 36$

Circle: True or False

5. If you divide 15 by 3 and add 12, you get ..... .

6. If the cards on the right are placed face down on a table and then mixed up, which letter would be most likely to appear when a card is flipped over?

.....

G	R	Q	A
G	C	G	S
G	T	B	G
N	G	L	L
P	N	Q	G

7. Write the mixed fraction $8\frac{3}{4}$ as an improper fraction. .....

8. Write the improper fraction $\frac{9}{5}$ as a mixed fraction. .....

9. (a) 0.327 × 100 = ... (b) 0.327 × 10 = ... (c) 0.327 × 0.1 = ...

10. (a) 10% of 46 = ... (b) 10% of 140 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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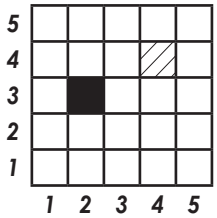
Minute 63

Name: ..... **Date:** .....

1. Which numbers can both 6 and 12 be evenly divided by?

Circle: 2 3 4 6 8 12



2. If ■ is at (2,3), then ▨ is at ..... .

3. If $2^3 = 2 \times 2 \times 2 = 8$,

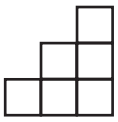
then 3^3 = ... = ...

4. Continue the pattern.

$\sqrt{4}$ $\sqrt{9}$ $\sqrt{16}$ $\sqrt{25}$ ....

5. If $(3y) + 5 = 20$, which of these numbers is equal to y?

Circle: A 10 B 15 C 5 D 20



6. The square root of what number is 9? .....

7. What is the perimeter of the shape to the right? ..... units

Use the frequency chart to solve problems 8 and 9.

Lawns Doug mowed

Mowing day	*Tally*
Mon.	| | | |
Tues.	| |
Wed.	| |
Thurs.	| | |
Fri.	|
Sat.	𝍸
Sun.	

8. On which day of the week did Doug mow the most lawns?

.....

9. On ..... and ..... , Doug mowed the same number of lawns.

Use the rules of negatives to help you simplify each expression.

10. (a) $(-6) \times (4)$ = ...

(b) $(-6) \times (-5)$ = ...

(c) $(7) \times (-8)$ = ...

positive* × *positive* = *positive
negative* × *positive* = *negative
negative* × *negative* = *positive

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 64

Name: ..... **Date:** .....

1. Which activity is more likely to occur?

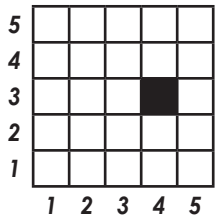
A Getting a hole in one.

B Bowling a 300 game.

Activity	*Odds*
hole in one (golf)	*33 000 to 1*
bowling a 300 game	*11 500 to 1*

2. What are the coordinates of ■ ?

(....., ...)



3. $5\frac{1}{3} + 6\frac{1}{3}$ = ...

4. Fill in the missing factors of 24.

1	*2*	*3*		*6*	*8*		*24*

5. Complete the pattern. 1, 3, 7, 15, ...

6. 3(..... + 4) = 18

7. Which is NOT equal to the others?

Circle: 30% 0.3 $\frac{3}{10}$ 0.03

8. 10^3 = ... × ..... × ..... = ...

9. $5\overline{)705}$

Use the rules of negatives to help you simplify each expression.

10. (a) (–8) × (–8) = ...

(b) (9) × (–5) = ...

(c) (–7) × (9) = ...

positive* × *positive* = *positive
negative* × *positive* = *negative
negative* × *negative* = *positive

My score: ____ / 10

My time: ..... minutes ..... seconds

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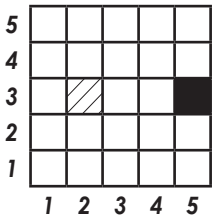
Minute 65

Name: ..... **Date:** .....

1. Match each word with its definition.

prime	.....	A	numbers that evenly divide another number
factors	.....	B	whole numbers that are the products of other numbers
multiples	.....	C	a number that can only be divided by 1 and itself

Use the graph to answer Questions 2 and 3.



2. What is the distance from one shaded box to the other?

..... units

3. To get from the lined box to the black box,

you would move ..... .

A north B south C east D west

4. 10 – (6 + 2) = ...

5. If $\frac{4}{9} = \frac{x}{36}$, then x = ...

6. If 3 + 6 + 2 + 8 + 3 + n = 27, then n = ...

For Problems 7–9, circle the greatest amount.

7.	5^3	$\sqrt{25}$	10^2
8.	3 weeks	20 days	1 month
9.	(–5) × (–5)	4 × 6	$\frac{100}{5}$

Use the rules of negatives to help you simplify each expression.

10. (a) (–8) + (–5) = ... (b) 4 – (–5) = ...

negative** + **negative** = **negative
positive** – **negative** = **positive

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 66

Name: ..... **Date:** .....

1. Match each kind of fraction with the correct example.

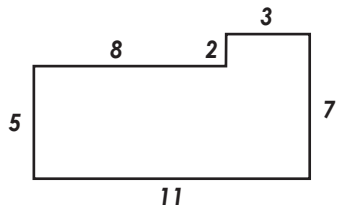
A	$\frac{5}{4}, \frac{4}{5}$
B	$4\frac{1}{2}$
C	$\frac{9}{5}$

improper .....

mixed .....

reciprocal .....

2. What is the perimeter of the shape?



..... units

3. $6\frac{1}{4} - 5\frac{3}{4} =$ .....

4. $6^2 =$ .....

5. Which numbers can both 8 and 24 be evenly divided by?

Circle: 1 2 3 4 6 8 12

6. $5\overline{)840}$

For Problems 7 to 10, match each mathematical expression with its correct description.

7. $a + b$ .....

8. $a - b$ .....

9. $a \times b$ .....

10. $\frac{a}{b}$ .....

A	b *is subtracted from* a
B	b *is added to* a
C	b *is multiplied by* a
D	a *is divided by* b

My score: ____ / 10

My time: ..... minutes ..... seconds

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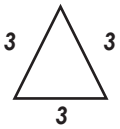
Minute 67

Name: ..... **Date:** .....

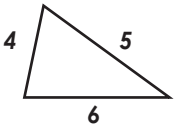
1. What is the best estimate of how much of this rectangle is shaded?

Circle: A $\frac{1}{2}$ B $\frac{1}{3}$ C $\frac{1}{10}$

2. Which of the triangles below is equilateral?

Circle: A 

B 

C 

3. $2\frac{2}{7} = \frac{16}{7}$

Circle: True or False

4. If $\frac{3}{5} = \frac{x}{40}$, then x = ...

5. 48 = 2 × 2 × 2 × 2 × .....

6. Write as a mixed fraction.

3.75 = ...

7. All of the following equal 10 except.

Circle: A $\frac{10^3}{10^2}$ B $\sqrt{100}$ C 5^2 D 5 × 2

8. Put these numbers in order from smallest to largest: –5, 7, –2, 8, 0.

.....

9. (a) (–3) + (–8) = ... (b) (–3) + (8) = ... (c) (–3) – (8) = ...

10. (a) (–12) × (–4) = ... (b) (–12) × (4) = ... (c) $\frac{-12}{4}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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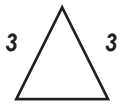
Minute 68

Name: ..... **Date:** .....

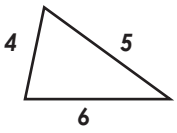
1. What is the best estimate of the part of the rectangle that is shaded?

Circle: A $\frac{1}{2}$ B $\frac{1}{8}$ C $\frac{1}{3}$ D $\frac{1}{4}$

2. Which of the triangles below is isosceles?

Circle: A 

B 

C 

3. $0.\overline{3}$ = ...

Circle: A $\frac{1}{2}$ B $\frac{1}{8}$ C $\frac{1}{3}$ D $\frac{1}{4}$

4. $\sqrt{5^2 - 3^2} = \sqrt{\text{.....}} =$ .....

5. 70 × 3000 = ...

6. $\frac{1}{4}$ × ..... = 5

7. Complete the empty boxes.

	× $\frac{1}{2}$	
4		2
6		3
8		4
16		
30		

For Problems 8 to 10, evaluate if $a = 6$, $b = 2$ and $c = 4$.

8. $a + b + c$ = ...

9. $a \times b \times c$ = ...

10. $a + \frac{b}{c}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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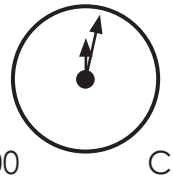
Minute 69

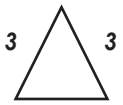
Name: ..... **Date:** .....

1. Which of these is the closest estimate of the time on this clock?

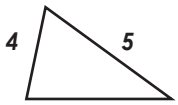


Circle: A noon B 9.00 C 11.00 D 1.00

2. Which of the triangles below is scalene?

Circle: A 

B 

C 

3. Put the following numbers into the correct box below: 3, 14, 2, 4, 21, 6, 8, 28.

Multiples of 7	*Factors of 24*

For Problems 4 to 6, circle true or false.

4. $(20 \div 2) \times 3 = 30$ True or False

5. $2 \times (5 + 4) - 6 = 5$ True or False

6. $4 + (7 \times 3) = 25$ True or False

7. Put the numbers {–6, 10, 0, –5, 4} in order from lowest to highest.

.....

8. Write the missing numbers in the table.

Sum	*Product*	*Numbers*
10	*16*	*2 and 8*
8	*12*	*..... and .....*

9. (a) (–6) + 8 + 4 = ... (b) (6 – 8) + 4 = ...

10. (a)
$$\begin{array}{r} 426 \\ \times \quad 3 \\ \hline \ldots\ldots\ldots \\ \ldots\ldots\ldots \end{array}$$

(b) $3\overline{)513}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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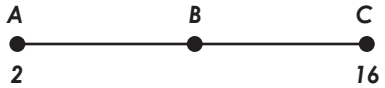
Minute 70

Name: ..... **Date:** .....

1. $40 \times \frac{\square}{\square} = 10$

2. If point B is halfway between points A and C, what number does it represent?

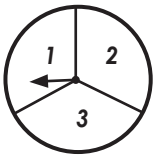


.....

3. $(3 + 0.3 + 0.7)^2$ = ...

4. Complete the sequence. 900, 90, 9, 0.9, ...

5. If you spin the spinner, what are the chances it will land on 1 or 3?



.....

For Problems 6 to9, solve each equation for a.

6. If $a + 8 = 12$, then a = ...

7. If $a - 2 = 12$, then a = ...

8. If $(-6) \times a = -48$, then a = ...

9. If $\frac{a}{(-3)} = 10$, then a = ...

10. (a) $\frac{1}{4} \times \frac{2}{4}$ = ... (b) $\frac{1}{4} + \frac{2}{4}$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 71

Name: ..... **Date:** .....

1. A tonne is 1000 kilograms. Approximately how many Year 6 students would it take to weigh a tonne?

Circle: A 5 B 20 C 100

2. Match each triangle with its correct definition.

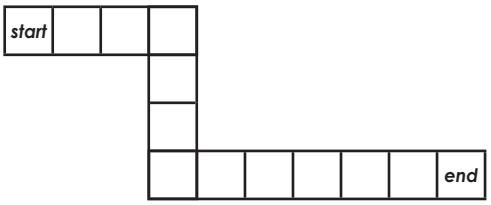
equilateral .....

scalene .....

isosceles .....

A	***a triangle with two equal sides***
B	***a triangle with three equal sides***
C	***a triangle with no equal sides***

3. If Brandon can hop three squares at a time, how many hops will it take him to get to the end of the walkway?

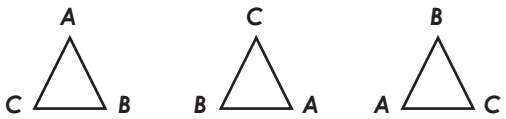


..... hops

4. Put the following numbers into the correct box below: 3, 10, 2, 20, 6, 25.

Multiples of 5	***Factors of 18***

5. If this pattern continues, what letter would be at the top of the next shape in the pattern? .....



6. Which of these is the same as 7^5? .....

A $7 + 7 + 7 + 7 + 7$ B $5 + 5 + 5 + 5 + 5 + 5 + 5$

C $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5$ D $7 \times 7 \times 7 \times 7 \times 7$

7. Which of these is the same as 0.5888888…?

A $0.\overline{58}$ B $\sqrt{0.58}$ C $0.5\overline{8}$

8. Reduce: (a) $\frac{5}{15}$ = ... (b) $\frac{10}{24}$ = ... (c) $\frac{6}{30}$ = ...

9. (a) $(-8) \times (-7)$ = ... (b) $(-8) \times (5)$ = ... (c) $(8) \times (-4)$ = ...

10. (a) $(-5) + (-7)$ = ... (b) $(-5) - 7$ = ... (c) $(-5) - (-7)$ = ...

My score: ____ / **10**

My time: ..... minutes ..... seconds

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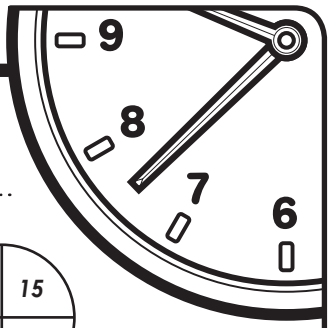
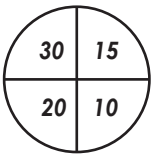
Minute 72



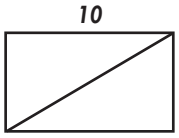
Name: ..... **Date:** .....

1. Marty got a score of 45 with two darts on this dartboard. Which two numbers did he hit?



....

2. Find the area of one of the triangles.



..... square units (Area of a triangle = $\frac{1}{2} \times b \times h$)

3. Complete the chart.

Fraction	*Decimal*	*Per cent*
		5%

4. If one of these cards is drawn at random, what is the probability that it will be a Y?

T	T	Y	Y	Y	R	S	S

.....

5. Which value of x would solve both of these equations?
$(2 \times x) + 7 = 13$ and $(6 \times x) - 5 = 13$

Circle: A $x = 3$ B $x = 10$ C $x = 2$

6. Which of the following does not equal 5?

Circle: $\sqrt{25}$ 5^2 $20 \div 4$ $(-5) + 10$

7. Double 75.5 = ...

8. $\frac{2 \times 3 \times 3 \times 5 \times 7}{3 \times 5 \times 7}$ = ...

(Hint: Cross out common factors from the top and the bottom.)

9. Change to improper fractions.

(a) $4\frac{1}{5}$ = ... (b) $5\frac{3}{5}$ = ... (c) $1\frac{9}{10}$ = ...

10. 3.5 – 0.8 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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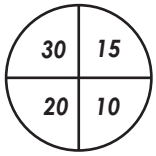
Minute 73

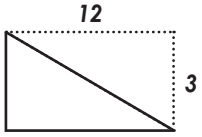
Name: ..... **Date:** .....

1. Mike claims he got a score of 55 with two darts on this dartboard. Is that possible?



Circle: Yes or No

2. Find the area of either right–angle triangle.



..... square units ($A = \frac{1}{2}bh$)

Use the game board to answer Questions 3 and 4.

Red	Red	Blue	Blue
Blue	Red	Blue	Blue
Blue	Red	Red	Blue
Blue	Red	Red	Blue

3. A coin is tossed on the game board.
Would it land on a red or a blue square more often? .....

4. What is the probability the coin would land on red? .....

5. Write the missing factors of 28.

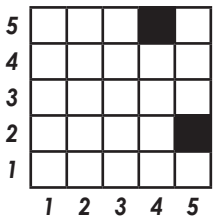
1	2		7		28

6. $\frac{6 \times 5 \times 4 \times 3 \times 2 \times 1}{4 \times 3 \times 2 \times 1}$ = ...

(Hint: Cross out common factors from the top and the bottom.)

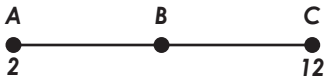
7. $4\overline{)48.012}$

8. One of the black squares has the coordinates of (4, 5).
What coordinates does the other square have?



.....

9. If point B is halfway between points A and C, what number does it represent?



.....

10. Circle the problems that have a whole number answer.
(Not a fraction or decimal.)

A $400 \div 5$ B $\frac{300}{10}$ C 4^2 D $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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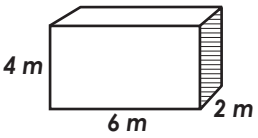
Minute 74

Name: ..... **Date:** .....

1. If $\frac{5}{8} \div \frac{2}{3} = \frac{5}{8} \times \frac{3}{2}$, then $\frac{4}{7} \div \frac{2}{5} = \frac{4}{7} \times \frac{\square}{\square}$.

2. To find the volume of a box, multiply all three dimensions. What is the volume of this box?



..... metres cubed (m^3)

3. What is the common denominator for $\frac{1}{4} + \frac{1}{5}$?

.....

For Problems 4 to 7, match each clue with its correct answer.

4. the square root of 9 .....

5. 9 squared .....

6. a factor of 10 .....

7. a multiple of 10 .....

A	*20*
B	*3*
C	*5*
D	*81*

For Problems 8–10, evaluate if $a = 5$, $b = 4$ and $c = 3$.

8. $a + b + c$ = ...

9. abc = ...

10. $c - a$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 75

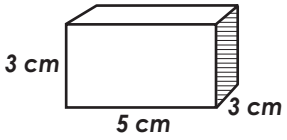
Name: ..... **Date:** .....

1. How many legs does each of the following have?

(a) 4 chairs have ..... legs

(b) 5 ducks have ..... legs

2. What is the volume of this box? ..... cm^3



3. 50% + 10% + 0.05 = ...

4. If 10% of 30 is 3, 20% of 30 is ..... .

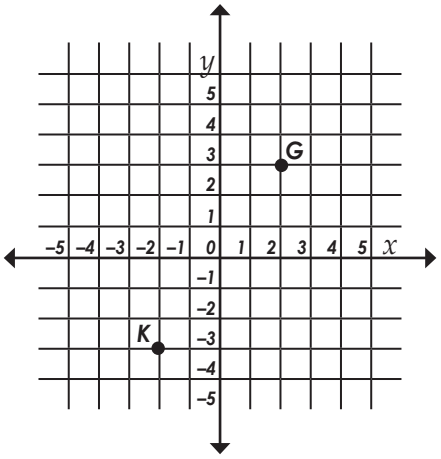
For Problems 5 to 7, find the value of y.

5. If $y - 25 = 96$, then y = ...

6. If $1.5y = 6$, then y = ...

7. $\frac{1}{3} = \frac{y}{9}$, then y = ...

Use the coordinate graph to answer Questions 8 and 9.



8. What are the coordinates of G? (..... , ...)

9. What are the coordinates of K? (–2, ...)

10. (a) $\frac{15}{3}$ = ... (b) (–5) × (3) = ...

(c) $\frac{40}{5}$ = ... (d) (–6) × (–3) = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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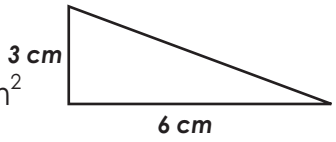
Minute 76

Name: ..... **Date:** .....

1. 19.356 kg = ... g

2. Find the area of the right–angle triangle. ..... cm^2



3. Complete the chart.

Fraction	*Decimal*	*Per cent*
$\frac{3}{2}$		


Tile A


Tile B

4. Which tile has more black squares? .....

5. $\frac{9 \times 5 \times 7 \times 3 \times 6 \times 0}{4 \times 3 \times 2 \times 1}$ = ...

6. –3(4 + 5) + 2 = ...

x	y
–1	1
–3	–1
–5	–3

7. To get the y number, you add ..... to the x number.

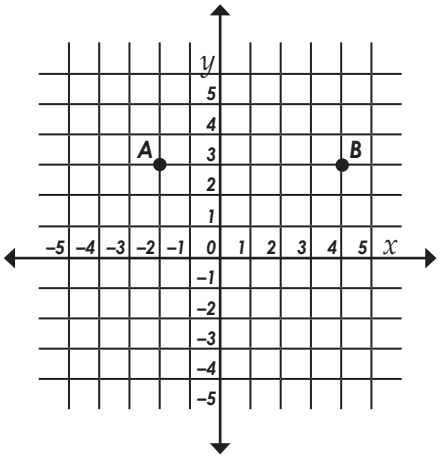
Use the coordinate graph to answer Questions 8 to 10.

8. What are the coordinates of A?

(–2, ...)

9. What is the distance from A to B?

..... units



10. To get from B to A, you would travel.

Circle: A east. B west.

C north. D south.

My score: ____ / 10

My time: ..... minutes ..... seconds

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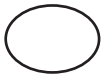
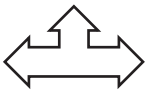
Minute 77

Name: ..... **Date:** .....

1. Circle the three–dimensional shape.

A  B  C  D 

2. How many lines of symmetry does this shape have?



.....

3. If a – 13 = 8, then a = ...

4. Complete the sequence.

$\frac{1}{2}, \frac{3}{5}, \frac{5}{8}, \frac{7}{11}$, ..., ...

5. I am an even number between 30 and 40.
If you add my digits together you get 7.

What number am I? .....

For Problems 6 to 8, circle the number that does not belong in the list.

6. 3 11 13 6

7. 7 8 14 21

8. 131 272 494 126

9. (a) 10% of 60 = ... (b) 20% of 60 = ... (c) 30% of 60 = ...

10. (a) 138.6 ÷ 10 = ... (b) 13.86 ÷ 100 = ... (c) 0.1386 ÷ 10 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 78

Name: ..... **Date:** .....

1. A litre of petrol costs $1.05. Mandy's scooter holds 20 litres. If her tank is empty, how much will it cost to fill it?

.....

2. If $x > 3$, which of these numbers could be a possible number for x?

Circle: A 3 B –22 C 0 D 4

3. $\frac{3}{4} \div \frac{1}{3} = \frac{3}{4} \times \frac{3}{1} =$ .....

4. All but one of the following are equal. Circle the odd one out.

A 1 B $\frac{3}{3}$ C $\frac{-3}{-3}$ D $\frac{2}{4}$

5. Which of these fractions is not completely reduced?

A $\frac{2}{6}$ B $\frac{2}{5}$ C $\frac{3}{4}$

For Problems 6 to 8, use > , < or =.

6. $(6)^2$ ⬚ 36

7. –5 ⬚ 5

8. 0.372 × 1000 ⬚ 37.2 × 100

9.
$$\begin{array}{r} 3281 \\ \times \quad 7 \\ \hline \end{array}$$

.....

10. $6\overline{)11\ 802}$

My score: ____ / 10

My time: ..... minutes ..... seconds

ISBN: 978-1-925686-70-8

Minute 79

Name: ..... **Date:** .....

1. If Bob usually mows 21 lawns per week, how many lawns does he average per day including the weekend? .....

2. $\frac{3}{7} \div \frac{2}{3} = \frac{3}{7} \times \frac{3}{2}$ = ...

3. Which is the correct way to write the number 27.36? .....

A Twenty–seven and thirty six tenths

B Twenty seven and thirty six hundredths

C Twenty–seven and thirty–six hundredths

For Problems 4 to 7, match each clue with its correct answer.

4. The square root of 9 .....

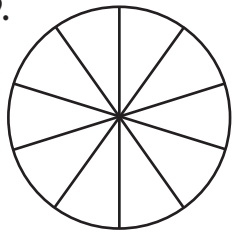
5. Nine squared .....

6. A factor of 8 .....

7. A multiple of 12 .....

A	***4***
B	***24***
C	***81***
D	***3***

Use the pie graph and table of information to answer Questions 8 and 9.



8. The circle has been divided into 10 equal sections. According to the chart, how many sections would need to be shaded for Category B?

.....

9. How many sections would be shaded for Category C? .....

Category	***Per cent***
A	***10%***
B	***20%***
C	***40%***
D	***30%***

10. Complete the chart.

Numbers	***Sum (+)***	***Product (×)***	***Difference (–)***	***Quotient (÷)***
–9, 3				

My score: ____ / **10**

My time: ..... minutes ..... seconds

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Minute 80

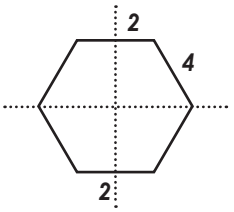
Name: ..... **Date:** .....

1. If two darts were thrown at the board, which could be a possible score?

6	2	12
10	8	4

Circle: A 15 B 26 C 20

2. The dotted lines represent the lines of symmetry of this shape.



What is the perimeter? ..... units

For Problems 3 to 6, match the correct value of n.

3. $n + 6 = 40$ .....

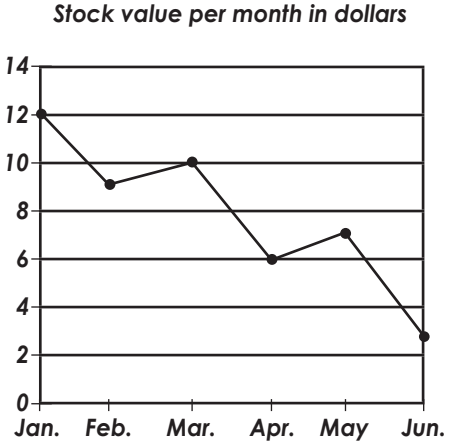
4. $3n = 15$ .....

5. $n^2 = 16$ .....

6. $\frac{n}{5} = 4$ .....

A	$n = 5$
B	$n = 20$
C	$n = 34$
D	$n = 4$

Use the graph to answer Questions 7 and 8.



7. This graph shows the value of the stock of a certain company during the first six months of the year. If you bought the stock in January and sold the stock in May, would you have made money or lost money?

.....

8. If you bought the stock in February and sold it in March, would you have made money or lost money? .....

9. (a) $4 \times 0.5 =$ ..... (b) $4 \times 1.5 =$ ..... (c) $4 \times 2.5 =$ .....

10. If $y = (2x) + 1$ and $x = 4$, then $y =$ ..... .

My score: ____ / 10

My time: ..... minutes ..... seconds

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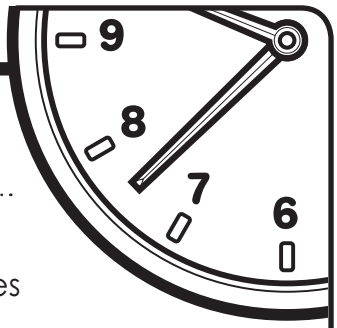
Minute 81



Name: ..... **Date:** .....

1. Calvin reads an average of eight pages a night. How many pages will he read in two weeks? ..... pages

2. Match each number with its written form.

(a) 38.6 .....

(b) 38.06 .....

(c) 3.806 .....

A	***thirty–eight and six hundredths***
B	***thirty–eight and six tenths***
C	***three and eight tenths and six thousandths***

3. Match each statement with its correct answer.

(a) The letter **T** has ..... .

(b) The letter **V** has ..... .

(c) The letter **Y** has ..... .

A	***two obtuse angles and an acute angle***
B	***two right angles***
C	***an acute angle***

For Problems 4 to 7, circle true or false.

4. $10 + 32 = 16$ True or False

5. $2(5 - 10) + 2 = -8$ True or False

6. $\frac{(4 + 3) - 9}{2} = 1$ True or False

7. $-3 + (-4)2 = -11$ True or False

8. Put the following numbers into the correct box below: 3, 8, 15, 10, 2.

Factors of 15	***Factors of 40***

9. In Problem 8, could the number 5 be placed in either box?

Circle: Yes or No

10. (a) $\frac{1}{10} + \frac{6}{10} =$ ..... (b) $\frac{1}{10} \times \frac{6}{10} =$ .....

My score: ____ **10**

My time: ..... minutes ..... seconds

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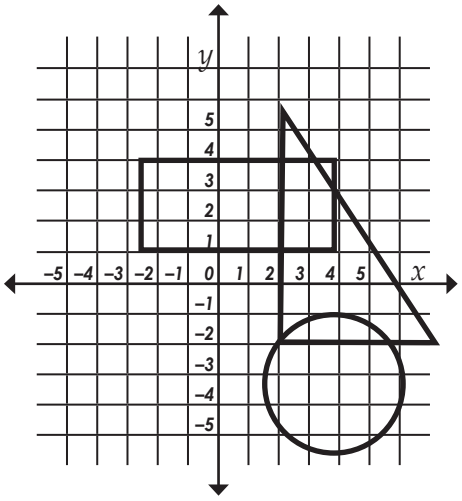
Minute 82

Name: ..... **Date:** .....

1. Place a decimal point in the number so that the 3 has a value of $\frac{3}{10}$: 2 4 3 5 9

For Problems 2 to 4, use the coordinate graph to answer true or false.



2. The point (3,2) is inside the triangle and rectangle.

Circle: True or False

3. The point (3,–4) is inside the circle.

Circle: True or False

4. The point (–1,3) is outside of all three shapes.

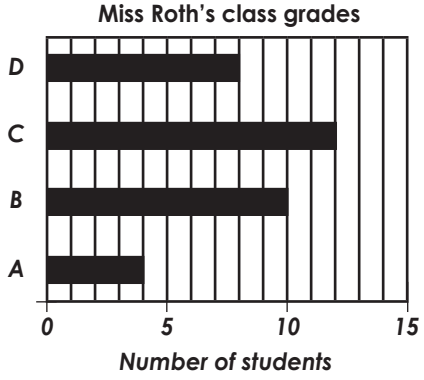
Circle: True or False

5. $\frac{9}{3}$ + (4 × 2) = ...

Use the table and bar graph to answer Question 6 to 8.

6. Use the graph to complete the table with the number of students who received each grade.

Grade	Number
A	
B	
C	
D	



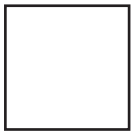
7. According to the graph, there were three times as many ..... as ..... grades.

8. Which is the mode grade in Miss Roth's class? .....

9. Find the area and perimeter of each square.

(a) 

area = ... cm^2
perimeter = ... cm

(b) 

area = ... m^2
perimeter = ... m

10. (a) 2 × 1 = ... (b) 3 × 2 × 1 = ... (c) 4 × 3 × 2 × 1 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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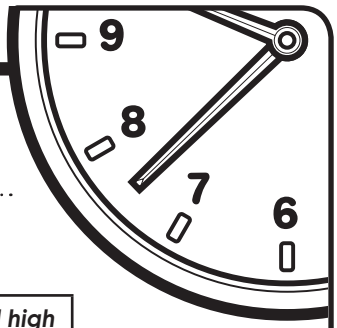
Minute 83



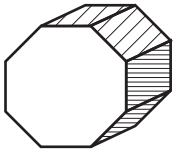
Name: ..... **Date:** .....

1. How many degrees must the temperature rise to reach the record high?

Current temp.	*Record high*
37°C	*43°C*

..... degrees

2. How many faces does this shape have? .....



3. The top and bottom lines of the letter **Z** are ..... .

A parallel B perpendicular C neither

4. List the factors of 12. ..... , ... , ... , ... , ... , ...

5. List the factors of 18. ..... , ... , ... , ... , ... , ...

6. What is the greatest common factor (GCF) that the numbers 12 and 18 share? .....

7. What should the next shape in the pattern be? 

Circle: A B 

8. Ivan has soccer practice at 3.30 and a music lesson at 6.00. If soccer practice lasts an hour, how much time will he have to get ready for his music lesson? .....

9. Find the volume of each box using the dimensions given.

(a) Box 1: 2, 4, 5 volume = ... cubic units

(b) Box 2: 3, 3, 4 volume = ... cubic units

(c) Box 3: 2, 5, 8 volume = ... cubic units

10. Circle the prime number in each list.

(a) 5 8 10 (b) 4 12 23 (c) 21 18 29

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 84

Name: ..... **Date:** .....

1. If the first circle and then every other circle were shaded, how many circles would be shaded?

 .....

Use < , > or = to complete Statements 2 to 5.

2. $3.\overline{8}$ ○ 3.5

3. radius ○ diameter

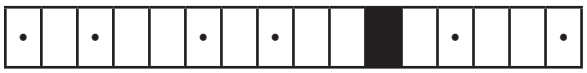
4. 52 ○ $\sqrt{36}$

5. 1 ○ $\frac{1}{2} + \frac{1}{2}$

6. What is the next shape in the pattern? 

Circle: A  B  C 

7. What is the greatest common factor (GCF) of 30 and 40? .....

8. Should the shaded square of the pattern have a dot in it? ..... 

9. Add the correct number of angles to complete each statement.

(a) A rectangle has ..... angles.

(b) An octagon has ..... angles.

(c) A hexagon has ..... angles.

10. Complete the chart.

Numbers	*Sum (+)*	*Product (×)*	*Difference (–)*	*Quotient (÷)*
–20, –4				

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 85

Name: ..... **Date:** .....

1. 76 minutes = ... hour(s) and ..... minutes

2. If Ben is cycling at 36 kilometres per hour, how far will he travel in $1\frac{1}{2}$ hours?

..... kilometres

3. 29 000 mm = ... m

For Problems 4 to 6, circle the greatest amount.

4. A 12% B 0.15 C $\frac{1}{5}$

5. A 1.3 kg B 990 g C 1500 g

6. A obtuse angle B acute angle C right angle

7. What is the greatest common factor (GCF) of 18 and 27?

.....

8. Which of these four friends has an amount of money that can be divided evenly by 3?

.....

Naomi	***$42***
Maria	***$50***
Barry	***$58***
Yvette	***$65***

9. Find the average of the three numbers.

(a) 2, 3, 7 average = ...

(b) 5, 6, 10 average = ...

(c) 2, 4, 9 average = ...

10. 0.07 × 0.2 = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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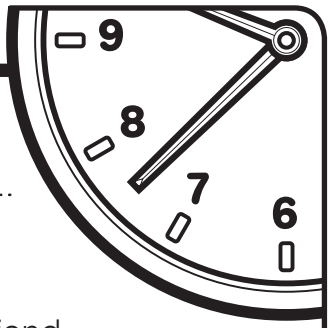
Minute 86



Name: ..... **Date:** .....

1. Jamie planned on sharing her bag of sweets evenly with her friend. When she opened the bag, she found that this was not possible. Which of the following could be the number of sweets in her bag?

Circle: A 12 B 21 C 16 D 20

2. Which of these could NOT be the angles of a triangle?

Circle: A 100°, 50°, 30° B 100°, 50°, 40°

3. If 3:RED and 4:BLUE, then 6: ..... .

Circle: A GREEN B BROWN C ORANGE D PINK

4. The number 0.2 would best belong between which two of these fractions? $\frac{1}{8}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{2}$

Circle: A $\frac{1}{8}$ and $\frac{1}{4}$ B $\frac{1}{4}$ and $\frac{3}{8}$ C $\frac{3}{8}$ and $\frac{1}{2}$

For Problems 5–8, circle true or false.

5. $32 \times 4 = 32$ True or False

6. $4\frac{2}{5} = \frac{22}{5}$ True or False

7. $\frac{4}{20} = \frac{3}{19}$ True or False

8. 5% = 0.5 True or False

Solve Problems 9 and 10 if $a = 2$, $b = 6$ and $c = 8$.

9. c^a = ...

10. $b(a + c)$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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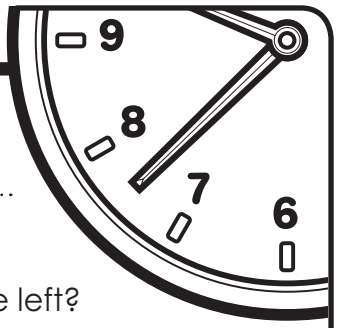
Minute 87



Name: ..... **Date:** .....

1. Jason had $34. He then made $15 mowing a lawn.
Next he spent $12 on golfing. How much money does he have left?

.....

2. Study the pattern below.

1	2
3	4

First

5	6
7	8

Second

9	10
11	12

Third

If the pattern continued, what would the sum of the fourth square be? .....

3. Linda left for her friend's house at 1.45 pm. Her father told her to be home in 1 hour and 15 minutes. By what time should she be home?

.....

4. $\sqrt{16}$ = ...

5. The weather bureau predicts a 40% chance of rain for Friday.
What is the predicted chance that it won't rain?

.....

For Problems 6 to 9, match each description with its correct expression.

6. Twice a number plus one .....

7. A number squared plus one .....

8. The value of n plus one, all squared .....

9. Twice the value of n plus one .....

A	$n^2 + 1$
B	$(n + 1)^2$
C	$2(n + 1)$
D	$2n + 1$

10. (a) (0.5)(6) = ... (b) (0.5)(–6) = ...

(c) (0.6)(6) = ... (d) (–0.6)(–6) = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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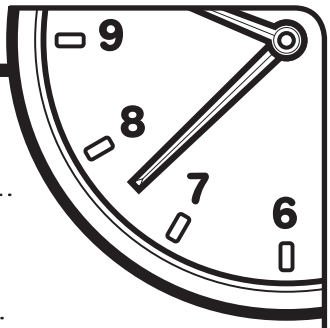
Minute 88



Name: ..... **Date:** .....

1. Lynn caught six fish. All of them were between two and three kilograms. What was the total weight of the six fish? .....

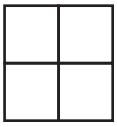
A between 8 and 9 kg

B between 12 and 18 kg

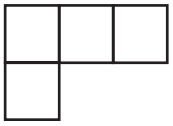
C between 20 and 30 kg

2. Which of these shapes has the greatest perimeter?

A 

B 

C 

D 

3. What is the total shaded area of all three boxes below as a mixed number (fraction)?



.....

4. If $3n = -60$, then n = ...

5. If $\frac{16}{n} = 8$, then n = ...

6. Is 253 evenly divisible by 9? Yes or No

7. 200 × 50c coins = $.....

Use the chart to answer Questions 8 and 9.

General bank savings and loan

Interest rate	*Amount*
0%	*$20–$199*
1%	*$200–$499*
1.5%	*$500–$4999*
2%	*$5000–$9999*
3%	*More than $10 000*

8. Jennifer wants to open a bank account with $700.

What interest rate will she get for her money? .....

9. What is the minimum amount of money that Tim will need to start a new account? .....

10. What is 1% of $400? .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 89

Name: ..... **Date:** .....

Use the chart to answer Questions 1 and 2.

Good numbers
2332
252
23 532
22

1. Based on the chart, would 2552 be a good number or a bad number? .....

2. Would 331 be a good number or a bad number?

.....

Use the calendar to answer Questions 3 and 4.

MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

3. What day would be two weeks and one day after the shaded one?

.....

4. Tammy's birthday is on 2 June. What day of the week will this be? .....

5. $\frac{1}{2}$ (3 × 2) = ...

6. Below are five ways the letters **H, A** and **T** can be arranged. What is the sixth way?

HAT HTA ATH AHT TAH .....

7. (negative)^2 = positive Circle: True or False

8. If a = 11, then a^2 = ...

9. If a = –11, then a^2 = ...

1	3	5	8
–	4	3	9
	A 9	B 0	C 9

10. Which of the shaded squares is incorrect on this subtraction problem?

Circle: A B C

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 90

Name: ..... **Date:** .....

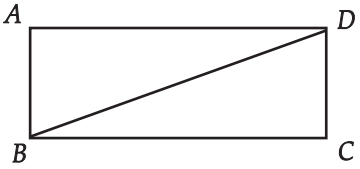
1. Add brackets to make this number sentence true.

$7 \times 5 - 10 \div 2 = 30$

2. Which two letters in this figure represent the hypotenuse of a triangle?

Circle: A $\overline{AD}$ B $\overline{AB}$

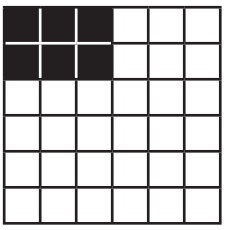
C $\overline{BC}$ D $\overline{AC}$



Use the grid to answer Questions 3 and 4.

3. Jamie is supposed to shade 25% of the squares. How many more will she need to shade?

.....



4. What fraction of the grid is currently shaded?

Circle: A $\frac{1}{3}$ B $\frac{1}{4}$ C $\frac{1}{5}$ D $\frac{1}{6}$

5. Which of these letters would look the same if was flipped upside down? **R A W X** .....

6. If the number 35 673 were written backwards, would it be bigger or smaller? .....

7. What number is missing in this sequence? 15 12 6 3 0

8. If $7 < a < 11$, then a could equal ..... .

Circle: A 8 B 6 C 12 D 15

9. Reduce: (a) $\frac{5}{10}$ = ... (b) $\frac{6}{18}$ = ...

10. Circle the numbers that are evenly divisible by 2.

438 537 246 711 25

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 91

Name: ..... **Date:** .....

1. Farmer Ed had 11 sheep.
All but four of them ran away. How many are left? .....

2. This star has ..... .

A all acute angles

B some acute and some obtuse angles

C all obtuse angles

3. What is the total area of all the shaded boxes below as a fraction? .....

4. $(3^2)^2$ = ...

5. Fill in the missing factors of 32.

1		4			32

3	4	17
7	6	12
8	11	9

6. How many numbers in the table are prime numbers? .....

7. If $-8 < a < 6$, then a could equal ..... .

–5 0 8 –10 1

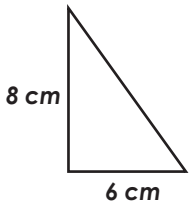
8. Circle the greatest amount.

A 0.5 B $\frac{1}{10}$ C 10% D 0.06

9. Circle all of the numbers that are evenly divisible by 5.

20 35 40 12 10

10. Find the perimeter and area of the right–angle triangle. (Hint: The longest side is 10 cm.)



perimeter = ... cm area = ... cm^2

My score: ____ / 10

My time: ..... minutes ..... seconds

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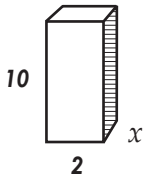
Minute 92

Name: ..... **Date:** .....

1. $30 \times \square = 6$

2. The volume of the box is 40.
What is the missing dimension? ..... units



3. Which of these numbers is evenly divisible by both 8 and 6?

Circle: A 16 B 48 C 32 D 12

For Problems 4 to 7, find the true value of n.

4. If $n + n + 2 = 10$, then n = ...

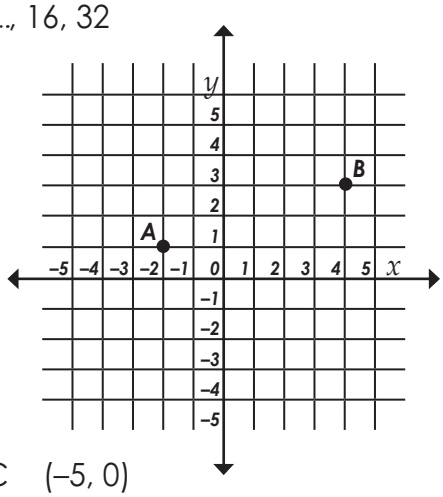
5. If $-6n = -48$, then n = ...

6. If $\frac{n}{12} = \frac{15}{36}$, then n = ...

7. If $\sqrt{n} = 9$, then n = ...

8. What number is missing in this sequence? 2, 4, ..., 16, 32

Use the coordinate graph to answer Questions 9 and 10.



9. To get from point A to point B,

you must go up ..... and right ..... .

10. Sandra lives halfway between A and B.
Which of these coordinates describes the location of her house?

Circle: A (1, 2) B (3, –3) C (–5, 0)

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 93

Name: ..... **Date:** .....

1. Vanessa's hens laid 80 eggs today. How many cartons holding a dozen each can she fill completely?

..... cartons

2. If the digits in the number 23 are reversed, what is the difference between the original number and the new number? .....

3. If $x = 7$, then $-x$ = ...

4. The piano class begins at 8.30 am and lasts for two and a half hours. At what time does the class end? .....

5. If $x^3 < 5$, then x could NOT equal:

Circle: A 5 B –6 C 0 D –10.

6. Fill in the empty boxes.

(a)	*12*	*28*	*63*	
(b)	*21*	*82*		*27*

7. Would the fraction $\frac{1}{5}$ be closer to 10%, 25% or 50%? .....

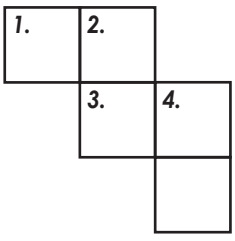
8. Use the pattern rule to complete the sequence.

Pattern rule
Multiply by 3, then add 1

1, 4, 13, 40, ...

9. 6 × 2 + (–3)(4) = ...+ ..... = ...

10. Complete the crossword using the clues.



Across 1. 12 × 4 = ...

3. One and a half dozen is ..... .

Down 2. 9^2 = ...

4. 8 × 10c = ... cents.

My score: ____ **10**

My time: ..... minutes ..... seconds

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Minute 94

Name: ..... **Date:** .....

1. If today is Sunday, three days ago was ..... .

2. Ken paid $30 for a jacket that was 50% off. What was the original price? .....

3. The answer to $\sqrt{28}$ is a ..... .

Circle: decimal or whole number

4. If $x = -5$, then $-x$ = ...

5. Fill in the empty boxes.

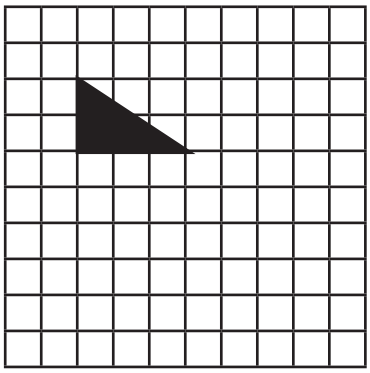
(a) (b)

$\frac{3}{4}$	$\frac{5}{11}$	
$\frac{4}{3}$		$\frac{15}{4}$

6. Which of the following are common factors for the numbers 20 and 30?

2 4 5 6 10 15 20

Use the grid to answer Questions 7 to 9.



7. If the right–angle triangle's dimensions are enlarged three times, the new base and height would be

..... units and ..... units.

8. What would the area of the enlarged triangle be?

..... square units ($A = \frac{1}{2} \times b \times h$)

9. The hypotenuse (the longest side) of the enlarged triangle would be:

Circle: A greater than 3 B less than 3 C equal to 3

10. (a) $14 + (-10)$ = ... (b) $14 - (-10)$ = ... (c) $14(-10)$ = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 95

Name: ..... **Date:** .....

1. If a and b are odd whole numbers, which of the following would also be an odd whole number?

Circle: A $a \times b$ B $a + b$ C $\frac{a}{b}$

2. In the fraction $\frac{1}{8}$,

1 is called the ..... and 8 is called the ..... .

3. Is $\sqrt{37}$ closer to 6 or 7? .....

4. 272.6 ÷ 100 = ...

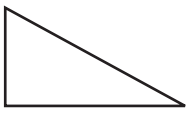
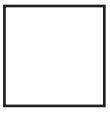
5. –(6 + 5) = ...

6. $8\frac{6}{20} - \frac{10}{20}$ = ...

7. If $2n > 12$, then n could equal ..... .

Circle: A 4 B 5 C 6 D 7

8. Which shape has the greater area?

Circle: A  B 

9. The cylinder has a diameter of 9 cm.
The ring has an inside radius of 5 cm.
Could the ring slide over the cylinder?

Circle: Yes or No

10. Circle the numbers that are evenly divisible by 4.

48 505 408 600 102

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 96

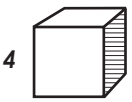
Name: ..... **Date:** .....

1. Twelve months ago, Janelle weighed 50 kilograms. If she has gained an average of half a kilogram per month, what does she weigh now? ..... kilograms

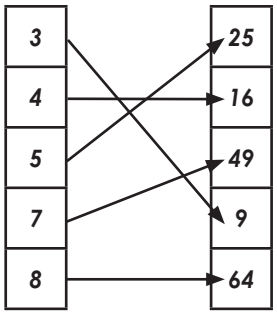
2. When you divide fractions, you flip the ..... fraction and then multiply.

Circle: first or second

3. How many 1–cm cubes can be placed in this 4–cm cube? .....



Use the chart to answer Questions 4 and 5.



4. Why do these numbers have arrows drawn between them?

.....

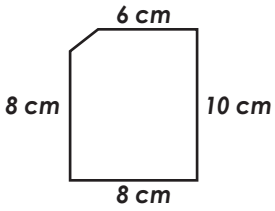
5. Which number in the first column could have gone in the second column? .....

6. If $(2a) - 4 = a + 1$, then a = ...

Circle: A 6 B 5 C 4

7. $\frac{1}{2} \times \frac{1}{4} \times \frac{4}{3}$ = ...

Use the diagram to answer Questions 8 to 10.



8. This piece of paper was a rectangle before the corner was cut off.
What was the area of the paper before the corner was cut off?

.....

9. What is the area of the corner (triangle) that was cut off? .....

10. What is the actual area of the paper without the corner? .....

My score: ____ 10

My time: ..... minutes ..... seconds

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Minute 97

Name: ..... **Date:** .....

1. Anya's great great–grandmother was born in 1809 and died in 1865. For how many years did she live?

..... years

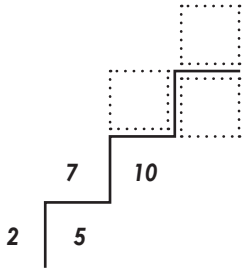
2. When you divide fractions, you should ..... the first fraction by the reciprocal of the second fraction.

Circle: A add B subtract C multiply D divide

3. If $\frac{1}{2}y = 6$, then y = ...

4. $2 + 4 \times \square = 22$

5. Write the next three numbers in the pattern.



6. If $x = -100$, then $-x$ = ...

7. If $4a > 11$, then a could be ..... .

Circle: A 1 B 2 C 2.5 D 3

8. In order for the scale to balance, x would have to equal

..... .

For Problems 9 and 10, rewrite each problem using exponents.

9. $3 \times 3 \times 3 \times 3 \times 2 \times 2 = \square^{\square} \times \square^{\square}$

10. $5 \times 5 \times 5 = \square^{\square}$

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 98

Name: ..... **Date:** .....

Use the multiplication problem to answer Questions 1 to 3. Circle true or false.

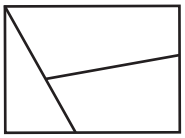
$\frac{3}{6} \times \frac{6}{12} =$

1. To simplify this problem, you can cancel the 6s (diagonally). True or False

2. To simplify this problem, you could also reduce $\frac{3}{6}$ to $\frac{1}{2}$. True or False

3. The final answer to this problem would be $\frac{1}{3}$. True or False

4. This shape is divided into ..... .



Circle: A quarters B thirds

C three parts D triangles

5. Shade the odd multiples of 7.

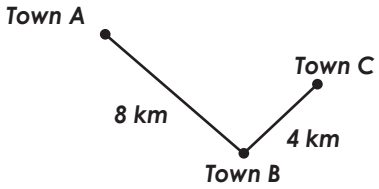
7	12	14	18	21	28	35

6. Use the numbers 1, 2, 3, and 4 to fill in these boxes and make a correct equation. ..... + ... = ... + ...

7. Circle the fractions that are more than $\frac{1}{2}$.

$\frac{3}{10}$ $\frac{3}{5}$ $\frac{2}{3}$ $\frac{2}{4}$ $\frac{5}{9}$

Use the diagram to answer Questions 8 to 10.



8. What is the distance between towns A and C by road? .....

9. Sally lives in Town A. On Saturday, she made a round–trip bike ride to Town B. How far did she ride? .....

10. Sally, who lives in Town A, made a 3–hour return bike trip to town. If she cycled at an average speed of 8 km/hour, which town did she visit?

Town .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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Minute 99

Name: ..... **Date:** .....

Use the division problem to answer Questions 1 to 3. Circle true or false.

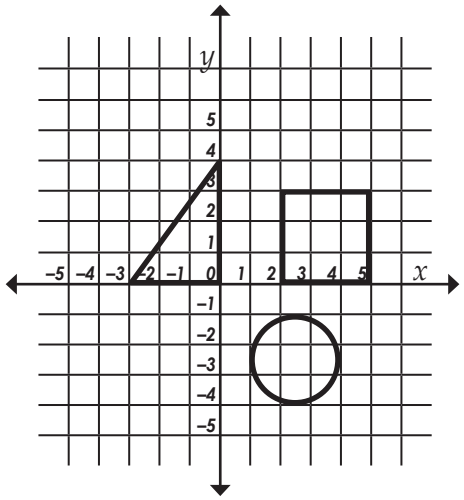
$\frac{1}{8} \div \frac{3}{4} =$

1. To solve the problem, you should rewrite it as $\frac{1}{8} \times \frac{4}{3}$. True or False

2. When dividing fractions, flip the first and multiply by the second. True or False

3. The final answer to this problem would be $\frac{1}{6}$. True or False

Use the coordinate graph to answer Questions 4 to 6.



4. What is the area of the triangle?

..... square units

5. What is the area of the square?

..... square units

6. Does the circle or the square have the greatest area?

.....

7. $2^5 = 2 \times 2 \times 2 \times 2 \times 2 =$ .....

For Problems 8 to 10, evaluate if $a = 3$, $b = 12$ and $c = 6$.

8. $\frac{c^2}{b} =$ ..... = ...

9. $-2(a + b) =$ .....

10. $\frac{c}{b} \times \frac{b}{a} =$ .....

My score: ____ / 10

My time: ..... minutes ..... seconds

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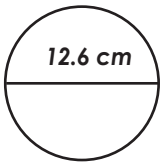
Minute 100

Name: ..... **Date:** .....

1. 5000 tennis balls might fill up a ..... .

Circle: A car B house C school

2. What is the radius of this circle if the diameter is 12.6 cm?



.....

3. If $x < 3.4$, which of the following could be a value of x?

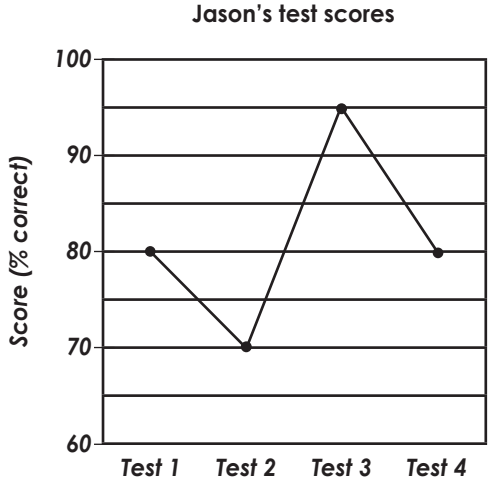
Circle: A 4.6 B 2.8 C 5.1

4. Complete the table.

Fraction	*Decimal*	*Per cent*
$\frac{3}{5}$		

5. $\frac{3^2 + 4^2}{5}$ = ...

6. If $b - 4.25 = 8.25$, then b = ...



Use the graph to answer Questions 7 to 9.

7. Jason received the same scores on

Test ..... and Test ..... .

8. Which of these numbers would be closest to Jason's average score?

Circle: A 93 B 72 C 81

9. If there were 50 questions on Test 1, how many did Jason answer correctly?

..... questions

10. (–3) + (–4) + (5) = ...

My score: ____ / 10

My time: ..... minutes ..... seconds

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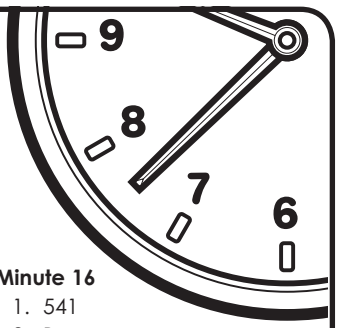
Minute answer key



Minute 1
1. 49
2. C
3. 0.034, 0.340, 0.403
4. $\frac{3}{10}$
5. 7
6. 17
7. 12 sq. units
8. 5
9. (a) 36 (b) 63 (c) 81
10. (a) 4 (b) 6 (c) 9

Minute 2
1. B
2. B
3. (a) $\frac{2}{5}$ (b) $\frac{3}{4}$
4. $\frac{7}{10}$
5. 16
6. 20
7. 14 units
8. A = 5, B = 20, C = 30
9. (a) 48 (b) 32 (c) 56
10. (a) 4 (b) 6 (c) 3

Minute 3
1. 5.56 pm
2. 6
3. $\frac{2}{8}$, $\frac{1}{4}$
4. <
5. 12
6. 16
7. 50 m
8. 20 people
9. (a) 60 (b) 72
10. (a) 10 (b) 11 (c) 9

Minute 4
1. 41.5
2. C
3. >
4. <
5. 22
6. 426
7. Yes
8. A
9. (a) 6 (b) 12 (c) 18
10. (a) 75 (b) 139 (c) 83

Minute 5
1. metres
2. D
3. 10
4. 2.3
5. 7 boxes
6. 18
7. 9 sq. units
8. 3
9. (a) 21 (b) 19
10. (a) 70(b) 161

Minute 6
1. years
2. C
3. $\frac{7}{14}$
4. 0.23
5. 9 metres
6. D24, E28
7. 63 mm^2
8. Thursday
9. Tuesday and Friday
10. (a) 54 (b) 45 (c) 35

Minute 7
1. D
2. A and B
3. A, C
4. 0.043
5. True
6. 
7. 18 units
8. Desiree
9. Rick
10. (a) 212 (b) 43 (c) 167

Minute 8
1. $5.40
2. A
3. B
4. (a) $\frac{4}{9}$ (b) $\frac{4}{16}$ or $\frac{1}{4}$
5. $\frac{4}{11}$
6. 16
7. December, January
8. December
9. (a) 2.9 (b) 4.3 (c) 12.4
10. (a) 88 (b) 170 (c) 276

Minute 9
1. (a) 20 (b) 310 (c) 110
2. C
3. A
4. A
5. 4
6. $\frac{4}{5}$
7. A
8. Red
9. 320 kilograms
10. (a) 0.72 (b) 0.98 (c) 2.08

Minute 10
1. C
2. A
3. C
4. 3.5, 5.1
5. 4
6. $\frac{4}{9}$
7. B
8. 50 eggs
9. 75 eggs
10. (a) 5.7 (b) 10.1 (c) 17.5

Minute 11
1. 4321
2. D
3. B
4. $\frac{2}{8}$, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{8}{8}$
5. 6
6. 27
7. 12 cubes
8. A = 20, B = 25, C = 45
9. (a) 63 (b) 64 (c) 42
10. (a) 15 (b) 17 (c) 19

Minute 12
1. 20
2. C
3. A
4. 2
5. 14 metres
6. 1 in 20, or 5%
7. 30 units
8. 30 glasses
9. (a) 5.8 (b) 8.3
10. (a) 56 (b) 63

Minute 13
1. (a) 100 (b) 2300 (c) 0
2. C
3. B
4. D
5. $\frac{12}{25}$
6. 27 boys
7. True
8. $\frac{1}{5}$ or 1:5 or 20%
9. (a) $\frac{1}{12}$ (b) $\frac{1}{30}$
10. (a) 30 (b) 63 (c) 72

Minute 14
1. 4, 8
2. A
3. $\frac{5}{15}$
4. 10
5. 9
6. $\frac{1}{4}$ or 1:4 or 25%
7. A and C
8. B
9. (a) 2.5 (b) 3.25 (c) 20.5
10. 6, 5

Minute 15
1. $5.90
2. B
3. C
4. >
5. =
6. 2
7. 20 metres
8. 5
9. (a) 125 (b) 150 (c) 250
10. (a) 31 (b) 102

Minute 16
1. 541
2. B
3. A
4. D
5. 4
6. 21
7. 45 m^2
8. Class 2
9. 5 more girls
10. (a) 1.2 (b) 13.05 (c) 3.5

Minute 17
1. $2.70
2. C
3. >
4. >
5. 6 + 3 = 9
6. B
7. $\frac{3}{9}$ or $\frac{1}{3}$
8. Chen
9. Jackie
10. (a) 250 (b) 125 (c) 250

Minute 18
1. A
2. D
3. 5.60, 5.06, 0.56, 0.056
4. $\frac{2}{6}$, $\frac{3}{9}$
5. No
6. A
7. $\frac{2}{5}$ or 2:5 or 40%
8. 52
9. (a) 26 (b) 25 (c) 29
10. (a) 5 (b) 9 (c) 11

Minute 19
1. B
2. C
3. $\frac{4}{15}$
4. $\frac{1}{2}$
5. less
6. 0
7. 40
8. 7200
9. (a) 30 (b) 36
10. (a) 7 (b) 3

Minute 20
1. B
2. A
3. $\frac{6}{35}$
4. 5 people
5. 4 people
6. 3 people
7. 12
8. I
9. (a) 7.5 (b) 11.2 (c) 22.9
10. (a) 30 (b) 12 (c) 70

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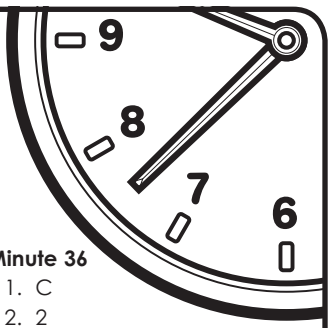
Minute answer key



Minute 21
1. million
2. B
3. 20
4. $\frac{1}{24}$
5. $\frac{12}{6} = 2$
6. Add 5, subtract 1.
7. 11 sq. units
8. 5
9. 614
10. 3301

Minute 22
1. 4.48 pm
2. E
3. 3
4. $\frac{4}{35}$
5. 64
6. adding the first two
7. 30 cm
8. 13
9. (a) 4 (b) 6 (c) 3
10. (a) 102 (b) 224

Minute 23
1. (a) 1000 (b) 2000 (c) 3000
2. H
3. 3
4. 2
5. 17
6. 40, 60
7. 2
8. 22
9. (a) 54 (b) 63 (c) 72
10. (a) 36 (b) 48 (c) 35

Minute 24
1. 270
2. A
3. B
4. $\frac{5}{7}$
5. 21
6. 10
7. 9 metres
8. 10
9. (a) 860 (b) 930
10. (a) 2500 (b) 3600

Minute 25
1. $8
2. C
3. C
4. $\frac{11}{7} = 1\frac{4}{7}$
5. ×
6. 6 sides
7. 48 mm
8. 18
9. 4 r 2
10. (a) 6 (b) 9

Minute 26
1. 14
2. B
3. B
4. $\frac{13}{2}$
5. 50
6. A
7. 4.5 sq. units
8. 56
9. (a) 60 (b) 500
10. 15 087

Minute 27
1. (1 × 50c), (1 × 20c), (1 × 10c), (1 × 5c)
2. C
3. $\frac{11}{12}$
4. 16
5. 2
6. 4, 2
7. 8 sq. units
8. 24 eggs
9. 8121
10. 6239

Minute 28
1. 36 cupcakes
2. c
3. $5\frac{2}{3}$
4. 3
5. +
6. A
7. 42
8. 3 students
9. Bs
10. (a) 1.2 (b) 2.8 (c) 4

Minute 29
1. Tuesday
2. f
3. $\frac{25}{3}$
4. >
5. ×
6. W4, V5
7. 7 sq. units
8. 6 metres
9. (a) 1.9 (b) 1.7
10. (a) 20 (b) 0

Minute 30
1. 6th of June
2. 13
3. $\frac{4}{27}$
4. 35
5. 65
6. 48
7. 22 units
8. 8
9. =
10. (a) $\frac{1}{20}$ (b) $\frac{2}{21}$ (c) $\frac{3}{40}$

Minute 31
1. Wednesday
2. A
3. 75
4. $\frac{75}{100}$ or $\frac{3}{4}$
5. circle
6. 5
7. 3, 8
8. $\frac{2}{5}$
9. (a) 365 (b) 270
10. (a) 309 (b) 247

Minute 32
1. Yes
2. B
3. $\frac{3}{5}$
4. 90%
5. 10%
6. circle
7. 6
8. 20
9. 2
10. (a) $\frac{3}{5}$ (b) $\frac{2}{25}$

Minute 33
1. 10 weeks
2. $5
3. 2.7 cm
4. $\frac{1}{2}$
5. $\frac{1}{4}$
6. Sally
7. triangle
8. 12
9. 8
10. 40

Minute 34
1. A
2. (a) trapezium (b) rhombus (c) square
3. 39%
4. 11 more boxes
5. 2
6. 5 694 600
7. perimeter
8. 15
9. (a) 23.6 (b) 34 (c) 460
10. (a) 20 (b) 25

Minute 35
1. A
2. D
3. 75%
4. $\frac{1}{2}$
5. 95%
6. 8
7. 6
8. B
9. (a) 28 (b) 42 (c) 60
10. (a) $\frac{1}{9}$ (b) $\frac{2}{3}$ (c) 0

Minute 36
1. C
2. 2
3. $\frac{7}{8}$
4. $\frac{1}{2}$
5. 13
6. 4
7. 6
8. $\frac{7}{35}$
9. 8
10. (a) 13, 40 (b) 16, 63

Minute 37
1. A
2. (a) line segment (b) line (c) ray
3. $\frac{1}{4}$
4. D
5. C
6. 15
7. A
8. B
9. April
10. (a) 5.62 (b) 42.6 (c) 0.58

Minute 38
1. B
2. D
3. $\frac{7}{12}$
4. $\frac{15}{48}$
5. 10%
6. 40 squares
7. 6
8. Justine
9. (a) 49 (b) 64 (c) 36
10. (a) 10 (b) 10 (c) 10

Minute 39
1. D
2. (a) 5 (b) 8 (c) 10
3. 0.55
4. 30%
5. A
6. The 1 should be an 8.
7. She found the area.
8. 9
9. 24
10. 15

Minute 40
1. C
2. $\frac{14}{20} = \frac{7}{10}$
3. 0.61
4. 47%
5. 29
6. 5
7. 7
8. 33
9. 0.06
10. 300

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Minute answer key

Minute 41
1. 1249
2. B
3. A
4. (a) 0.75, 75% (b) $\frac{1}{10}$, 10%
5. 10
6. 21
7. 4
8. A
9. C
10. D

Minute 42
1. B
2. $\frac{3}{8}$
3. 50%
4. (a) $\frac{1}{4}$, 0.25 (b) $\frac{3}{10}$, 30%
5. 81
6. 32
7. 30
8. 18
9. (a) $\frac{1}{2}$, (b) $\frac{3}{64}$
10. (a) 200 (b) 150 (c) 80

Minute 43
1. A
2. acute, right, obtuse
3. D
4. 15
5. cylinder
6. kilometres
7. 2
8. (a) 15 (b) 90
9. (a) 10 (b) 6
10. 38

Minute 44
1. C
2. 6 faces
3. $1.\overline{7}$
4. 50%
5. 3
6. B
7. A
8. C
9. (a) $\frac{1}{3}$ (b) $\frac{11}{9}$ or $1\frac{2}{9}$
10. (a) $\frac{19}{2}$ (b) $\frac{41}{4}$

Minute 45
1. 10 tins
2. 7 faces
3. $0.8\overline{2}$
4. 0.25
5. 10
6. D D D D
7. $\frac{1}{100}$
8. 16.5 cm
9. (a) 0.111 (b) 0.151
10. (a) 10 (b) 100 (c) 1000

Minute 46
1. 6543.21
2. 7 units
3. $0.\overline{39}$
4. 30
5. 55%
6. 25
7. 7
8. A = 12, B = 27, C = 18
9. (a) $\frac{1}{5}$ (b) $\frac{1}{100}$
10. (a) 0.3 (b) 0.28

Minute 47
1. 1234.56
2. 3
3. 35
4. seventeen hundredths
5. 0.7 or $\frac{7}{10}$
6. 45%
7. 30%
8. C
9. (a) 9.8 (b) 98 (c) 980
10. (a) 5% (b) 15% (c) 85%

Minute 48
1. D
2. Yes
3. 0.9
4. $0.\overline{7}$
5. 1
6. 0.6
7. 90
8. 106
9. (a) 42 (b) 90 (c) 45
10. B, C

Minute 49
1. 50 km/h
2. Yes
3. $0.\overline{7}$
4. (a) $\frac{2}{5}$, 0.4 (b) 0.25, 25%
5. 120
6. 6
7. $70.15
8. EG
9. $\frac{2}{10}, \frac{4}{20}$
10. (a) 14 (b) 365 (c) 38

Minute 50
1. 40 cartons
2. 8 faces
3. <
4. <
5. >
6. (a) 7 (b) 2 (c) 2
7. No
8. $13
9. (a) 15 (b) 6 (c) 6
10. 999

Minute 51
1. Joanne: 10, Jackie: 13
2. 180 degrees
3. $0.3\overline{8}$
4. 4
5. Yes
6. No
7. A
8. B
9. 4, 5, 8
10. (a) $\frac{16}{3}$ (b) $\frac{20}{3}$ (c) $\frac{13}{4}$

Minute 52
1. B
2. 40°
3. (70 ÷ 10) × (5 ÷ 1) = 35
4. 5
5. CBA
6. 124
7. 5
8. 25
9. multiply
10. (a) 18 mm^2 (b) 18 mm

Minute 53
1. 195 kilometres
2. 180
3. 0.3
4. 6
5. 24
6. 7
7. white
8. 250
9. (a) 39 (b) 47 (c) 68
10. 3000

Minute 54
1. $44
2. 10 sq. units
3. 8
4. 54
5. outside
6. 5
7. (3 + 9) × 4 = 48
8. 3.25
9. B
10. (a) 15 (b) 15 (c) 15

Minute 55
1. (a) 5650 (b) 6000
2. 24 sq. units
3. 3.06, 3.068
4. 8 × 8 = 64
5. 8
6. $\frac{1}{8}$
7. 5, 17, 29
8. =
9. >
10. >

Minute 56
1. B
2. 13 May
3. B = 2.4, C = 2.8, A = 2.1
4. 5 and 23
5. $\frac{2}{5}$
6. B
7. $2n$
8. n^2
9. $\frac{n}{2}$
10. $\sqrt{n}$

Minute 57
1. 12 kilograms
2. 9
3. $\frac{5}{6}$
4. 8, 64
5. $\frac{3}{5}$
6. D
7. C
8. 3, 7 and 1, 9
9. 3, 16
10. 4 or –4

Minute 58
1. 10 combinations
2. 5 m
3. 35 m^2
4. 100
5. 28
6. (a) 4 (b) 6 (c) 8
7. 18 people
8. 12, 2
9. 7430
10. (a) $\frac{4}{5}$ (b) $\frac{3}{25}$

Minute 59
1. 23
2. 5 times
3. 20 units
4. 6
5. $\frac{10}{17}$
6. C
7. 3 squares
8. 14
9. 36
10. 1

Minute 60
1. A
2. $\frac{1}{2}$
3. A
4. 13
5. 27 girls
6. 27
7. D
8. B
9. A
10. C

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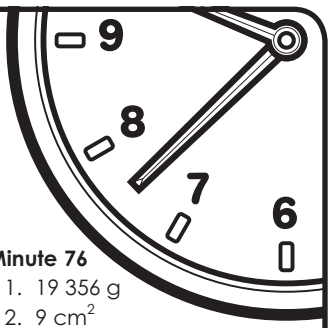
Minute answer key



Minute 61
1. (a) 130 (b) 3000 (c) 488
2. 6 cubes
3. 4
4. 5
5. $\frac{1}{10}$ or 10%
6. 3384
7. 50
8. 1
9. B and E
10. (a) 4 (b) 5 (c) 1

Minute 62
1. A
2. B
3. +
4. False
5. 17
6. G
7. $\frac{35}{4}$
8. $1\frac{4}{5}$
9. (a) 32.7 (b) 3.27 (c) 0.0327
10. (a) 4.6 (b) 14

Minute 63
1. 2, 3, 6
2. (4,4)
3. $3 \times 3 \times 3 = 27$
4. $\sqrt{36}$, $\sqrt{49}$
5. C
6. 81
7. 12 units
8. Saturday
9. Tuesday and Wednesday
10. (a) –24 (b) 30 (c) –56

Minute 64
1. B
2. (4,3)
3. $11\frac{2}{3}$
4. 4, 12
5. 31
6. 2
7. 0.03
8. $10 \times 10 \times 10 = 1000$
9. 141
10. (a) 64 (b) –45 (c) –63

Minute 65
1. prime = C, factors = A, multiples = B
2. 3 units
3. C
4. 2
5. 16
6. 5
7. 5^3
8. 1 month
9. $(-5) \times (-5)$
10. (a) –13 (b) 9

Minute 66
1. improper = C
   mixed = B
   reciprocal = A
2. 36 units
3. $\frac{1}{2}$
4. 36
5. 1, 2, 4, 8
6. 168
7. B
8. A
9. C
10. D

Minute 67
1. B
2. A
3. True
4. 24
5. 3
6. $3\frac{3}{4}$
7. 5^2
8. –5, –2, 0, 7, 8
9. –11, 5, –11
10. 48, –48, –3

Minute 68
1. D
2. B
3. C
4. $\sqrt{16} = 4$
5. 210 000
6. 20
7. 8, 15
8. 12
9. 48
10. $6\frac{1}{2}$

Minute 69
1. A
2. C
3. Multiples of 7: 14, 21, 28
   Factors of 24: 3, 2, 4, 6, 8
4. True
5. False
6. True
7. –6, –5, 0, 4, 10
8. 2 and 6
9. (a) 6 (b) 2
10. (a) 1278 (b) 171

Minute 70
1. $\frac{1}{4}$
2. 9
3. 16
4. 0.09
5. $\frac{2}{3}$
6. 4
7. 14
8. 8
9. –30
10. (a) $\frac{1}{8}$ (b) $\frac{3}{4}$

Minute 71
1. B
2. equilateral = B
   scalene = C
   isosceles = A
3. 4 hops
4. Multiples of 5: 10, 20, 25
   Factors of 18: 3, 2, 6
5. A
6. D
7. C
8. (a) $\frac{1}{3}$ (b) $\frac{5}{12}$ (c) $\frac{1}{5}$
9. (a) 56 (b) –40 (c) –32
10. (a) –12 (b) –12 (c) 2

Minute 72
1. 30 and 15
2. 25 sq. units
3. $\frac{1}{20}$, 0.05
4. $\frac{3}{8}$
5. A
6. 5^2
7. 151
8. 6
9. (a) $\frac{21}{5}$ (b) $\frac{28}{5}$ (c) $\frac{19}{10}$
10. 2.7

Minute 73
1. No
2. 18 sq. units
3. Blue
4. $\frac{7}{16}$
5. 4, 14
6. 30
7. 12.003
8. (5, 2)
9. 7
10. All of them

Minute 74
1. $\frac{5}{2}$
2. 48 m^3
3. 20
4. B
5. D
6. C
7. A
8. 12
9. 60
10. –2

Minute 75
1. (a) 16 (b) 10
2. 45 cubic units
3. 0.65 or 65%
4. 6
5. 121
6. 4
7. 3
8. (2, 3)
9. (–2, –3)
10. (a) 5 (b) –15 (c) 8 (d) 18

Minute 76
1. 19 356 g
2. 9 cm^2
3. 1.5, 150%
4. Tile A
5. 0
6. –25
7. 2
8. (–2, 3)
9. 6 units
10. B

Minute 77
1. D
2. 1
3. 21
4. $\frac{9}{14}$, $\frac{11}{17}$
5. 34
6. 6
7. 8
8. 126
9. (a) 6 (b) 12 (c) 18
10. (a) 13.86 (b) 0.1386 (c) 0.01386

Minute 78
1. $21.00
2. D
3. $\frac{9}{4}$ or $2\frac{1}{4}$
4. D
5. A
6. =
7. <
8. <
9. 22 967
10. 1967

Minute 79
1. 3 lawns
2. $\frac{9}{14}$
3. C
4. D
5. C
6. A
7. B
8. 2 sections
9. 4 sections
10. –6, –27, –12, –3

Minute 80
1. C
2. 24 units
3. C
4. A
5. D
6. B
7. lost money
8. made money
9. (a) 2 (b) 6 (c) 10
10. 9

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Minute answer key

Minute 81
1. 112 pages
2. (a) B (b) A (c) C
3. (a) B (b) C (c) A
4. False
5. True
6. False
7. True
8. Factors of 15: 3, 15
   Factors of 40: 8, 10, 2
9. Yes
10. (a) $\frac{7}{10}$, (b) $\frac{3}{50}$

Minute 82
1. 24.359
2. True
3. True
4. False
5. 11
6. A = 4, B = 10, C = 12, D = 8
7. C, A
8. C
9. (a) 16 cm^2, 16 cm
   (b) 64 m^2, 32 m
10. (a) 2 (b) 6 (c) 24

Minute 83
1. 6 degrees
2. 10 faces
3. A
4. 1, 2, 3, 4, 6, 12
5. 1, 2, 3, 6, 9, 18
6. 6
7. A
8. 1 hour 30 minutes
9. (a) 40 (b) 36 (c) 80
10. (a) 5 (b) 23 (c) 29

Minute 84
1. 4 circles
2. >
3. <
4. >
5. =
6. C
7. 10
8. Yes
9. (a) 4 (b) 8 (c) 6
10. –24, 80, –16, 5

Minute 85
1. 1 hour 16 minutes
2. 54 km
3. 29 m
4. C
5. C
6. A
7. 9
8. Naomi
9. (a) 4 (b) 7 (c) 5
10. 0.014

Minute 86
1. B
2. B
3. C (Number of letters in word)
4. A
5. False
6. True
7. False
8. False
9. 64
10. 60

Minute 87
1. $37
2. 58
3. 3.00 pm
4. 4
5. 60%
6. D
7. A
8. B
9. C
10. (a) 3 (b) –3 (c) 3.6
    (d) 3.6

Minute 88
1. B
2. D
3. $2\frac{5}{9}$
4. –20
5. 2
6. No
7. $100
8. 1.5%
9. $20
10. $4

Minute 89
1. good (first and last digits are 2)
2. bad
3. Wednesday
4. Monday
5. 3
6. THA
7. True
8. 121
9. 121
10. B

Minute 90
1. (7 × 5) – (10 ÷ 2) = 30
2. D
3. 3 squares
4. D
5. X
6. bigger
7. 9
8. A
9. (a) $\frac{1}{2}$ (b) $\frac{1}{3}$
10. 438, 246

Minute 91
1. 4 sheep
2. B
3. $3\frac{1}{4}$
4. 81
5. 2, 8, 16
6. 4
7. –5, 0, 1
8. A
9. 20, 35, 40, 10
10. perimeter = 24 cm,
    area = 24 cm^2

Minute 92
1. $\frac{1}{5}$
2. 2
3. B
4. 4
5. 8
6. 5
7. 81
8. 8
9. up 2 and right 6
10. A

Minute 93
1. 6 cartons
2. 9
3. –7
4. 11.00 am
5. A
6. (a) 72 (b) 36
7. 25%
8. 121
9. 12 + –12 = 0
10. Across: 1. 48; 3. 18
    Down: 2. 81; 4. 80

Minute 94
1. Thursday
2. $60
3. decimal
4. 5
5. (a) $\frac{4}{15}$ (b) $\frac{11}{5}$
6. 2, 5, 10
7. 9, 6
8. 27 sq. units
9. A
10. (a) 4 (b) 24 (c) –140

Minute 95
1. A, C
2. numerator, denominator
3. 6
4. 2.726
5. –11
6. $7\frac{16}{20}$, $7\frac{4}{5}$
7. D
8. B
9. Yes
10. 48, 408, 600

Minute 96
1. 56 kg
2. second
3. 64
4. The second–column numbers are the squares of the first–column numbers.
5. 4
6. B
7. $\frac{1}{6}$
8. 80 cm^2
9. 2 cm^2
10. 78 cm^2

Minute 97
1. 56 years
2. C
3. 12
4. 5
5. 17, 15, 32
6. 100
7. D
8. 20
9. $3^4 \times 2^2$
10. 5^3

Minute 98
1. True
2. True
3. False
4. C
5. 7, 21, 35
6. 2 + 3 = 4 + 1 (order may vary)
7. $\frac{3}{5}$, $\frac{2}{3}$, $\frac{5}{9}$
8. 12 km
9. 16 km
10. Town C

Minute 99
1. True
2. False
3. True
4. 6 sq. units
5. 9 sq. units
6. square
7. 32
8. $\frac{36}{12}$, 3
9. –30
10. 2

Minute 100
1. A
2. 6.3 cm
3. B
4. 0.6, 60%
5. 1
6. 12.5
7. 1 and 4
8. C
9. 40 questions
10. –2

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