

sixth edition



MATHS MATE

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J. B. Wright & I. Tutos



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J. B. Wright & I. Tutos

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Preface

The Maths Mate Review Program is designed to be used in schools by students from years 3 to 10 (Australia) and years 4 to 11 (New Zealand). Emphasis is placed on the review and gradual development of basic skills.

It is not expected that all students will be able to complete every question from week one. Some questions have been designed to offer a real challenge. However, a major strength of the program is that students are consistently confronted with problems relating to their understanding of the same basic skill, encouraging them to see the need to master that skill in order to progress.

RECOMMENDED GRADE / YEAR LEVEL INDICATOR

		AUS 1	2	3	4	5	6	7	8	9	10	11	12
Orange	Student e-Book - 2nd Ed.												
Rose	Student e-Book - 2nd Ed.												
Yellow	Student e-Book - 6th Ed.												
Red	Student e-Book - 6th Ed.												
Blue	Student e-Book - 6th Ed.												
Green	Student e-Book - 6th Ed.												
Mauve	Student e-Book - 6th Ed.												
Coffee	Student e-Book - 3rd Ed.												
Lime	Student e-Book - 6th Ed.												
Silver	Student e-Book - 3rd Ed.												

NZ Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10 Y11 Y12 Y13

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Maths Mate Yellow cover painting

Pacific Regal Blue Tang - 2003
Acrylic on canvas 45 × 60 cm
by Australian artist Susan Betts - Kokata, Mirning and Wirangu.



'Pacific Regal Blue Tang' was purchased by The Educational Advantage who have been kindly given permission to reproduce the painting. This contemporary Aboriginal artwork combines traditional and modern techniques. Susan's rich and vibrant art reflects the Australian landscape and wildlife, both flora and fauna.

MATHS MATE



Name:

Class:

Teacher:

Worksheet Results

Term 1

	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Skill Builder links	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Skill Builder links	
NUMBER & ALGEBRA	1. [+ Whole Numbers to 10]	1	1	1	1	1.1,2,3,4	1	1	1	1	1.1,2,3,4
	2. [- Whole Numbers to 10]	2	2	2	2	2.1,2,3,4,5	2	2	2	2	2.1,2,3,4,5
	3. [× Whole Numbers to 10]	3	3	3	3	3.3,4,5	3	3	3	3	3.1,2,3,4
	4. [÷ Whole Numbers to 10]	4	4	4	4	4.1,2	4	4	4	4	4.1,2
	5. [Large Number +]	5	5	5	5	5.1	5	5	5	5	5.1
	6. [Large Number -]	6	6	6	6	6.1	6	6	6	6	6.1
	7. [Powers of 10 ×, ÷]	7	7	7	7	7.1,2	7	7	7	7	7.3,4
	8. [Large Number ×, ÷]	8	8	8	8	8.1	8	8	8	8	8.4
	9. [Decimals]	9	9	9	9	9.1	9	9	9	9	9.2
	10. [Fractions]	10	10	10	10	10.1	10	10	10	10	10.2
	11. [Dec. / Frac. / Percentages]	11	11	11	11	11.1	11	11	11	11	11.2
	12. [Place Value]	12	12	12	12	12.1	12	12	12	12	12.2
	13. [Operations]	13	13	13	13	13.1	13	13	13	13	13.2
	14. [Exploring Numbers]	14	14	14	14	14.1	14	14	14	14	14.2,3
	15. [Number Patterns / Equations]	15	15	15	15	15.1	15	15	15	15	15.2
MEASUREMENT & SPACE	16. [Units of Measurement]	16	16	16	16	16.1,2	16	16	16	16	16.3,4,5
	17. [Measuring]	17	17	17	17	17.1	17	17	17	17.2	
	18. [Perimeter / Area]	18	18	18	18	18.1	18	18	18	18.2	
	19. [Shapes]	19	19	19	19	19.1	19	19	19	19.2	
	20. [Location / Transformation]	20	20	20	20	20.1	20	20	20	20.2	
S & P	21. [Statistics / Probability]	21	21	21	21	21.1,2	21	21	21	21	21.3,4
PROBLEM SOLVING	22. [Problem Solving 1]	22	22	22	22	Hints & Solutions	22	22	22	22	Hints & Solutions
	23. [Problem Solving 2]	23	23	23	23	Hints & Solutions	23	23	23	23	Hints & Solutions
	24. [Problem Solving 3]	24	24	24	24	Hints & Solutions	24	24	24	24	Hints & Solutions
	Total Correct	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	9	7	3	4	2	6	8	5	1	10
+ 2										

2. [- Whole Numbers to 10]

	15	9	14	12	16	11	13	8	17	10
- 7										

3. [× Whole Numbers to 10]

	3	6	9	1	7	2	10	5	4	8
× 4										

4. [÷ Whole Numbers to 10]

	20	5	35	45	10	15	50	25	30	40
÷ 5										

QUOTE

"A person is like a fraction whose numerator is what they are and whose denominator is what they think of themselves. The larger the denominator the smaller the fraction."

Leo Tolstoy

Who are you?

a) b) c)

CHALLENGE:
You'll find this little Mate ☺ on every sheet but one! The question is which one?

5. [Large Number +]

$$\begin{array}{r} 22 \\ + 45 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array}$$

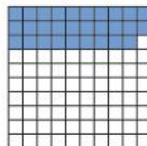
11. [Decimals / Fractions / Percentages]

one = tenths

6. [Large Number -]

$$\begin{array}{r} 38 \\ - 23 \\ \hline \end{array}$$

9. [Decimals]



hundredths =

0.

12. [Place Value]

Name the place of the underlined digit in the number 193. [Hint: Is it units, tens or hundreds?]

13. [Operations]

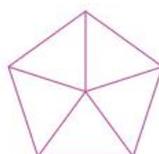
9 + 5 = 5 +

7. [Powers of 10 ×,+]

$$\begin{array}{r} 35 \\ \times 10 \\ \hline \end{array}$$

10. [Fractions]

Shade in $\frac{2}{5}$ (two fifths) of the pentagon.



14. [Exploring Numbers]

Write in numerals:
eight hundred and five

15. [Number Patterns / Equations]

2, 7, 12, 17, 22,

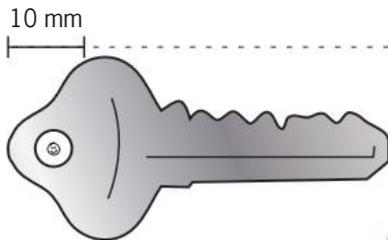
16. [Units of Measurement]

Choose the appropriate unit: centimetres, metres or kilometres.

"The world's tallest volcano is Mauna Kea with a total height (measured from the sea floor) of 10 211"

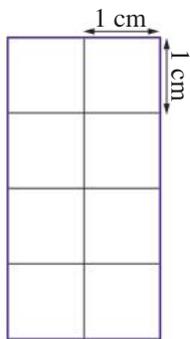
17. [Measuring]

Estimate the length of the key.



18. [Perimeter / Area]

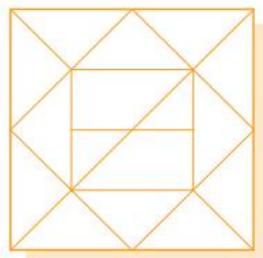
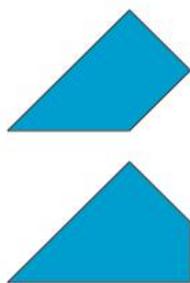
Find the perimeter of this shape.



19. [Shapes]

One of these shapes is hidden in the maze. Find it and colour it in.

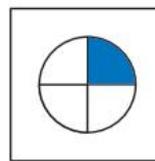
[Same size and orientation.]



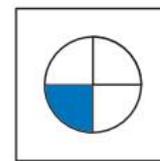
20. [Location / Transformation]

Which movement has transformed this shape?

- A) flip (reflection)
- B) slide (translation)
- C) turn (rotation)



Position 1

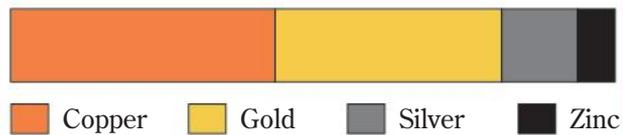


Position 2

21. [Statistics / Probability]

What is the main metal in 9-carat gold?

Typical Composition of 9-Carat Gold



22. [Problem Solving 1] *

Mum works on the fourth floor from the top of the building. It is also fourth from the bottom. How many floors high is the building?

23. [Problem Solving 2]

Fill in the missing digits in the sum.

$$\begin{array}{r}
 1 \quad 2 \quad 0 \\
 + \quad \square \quad 7 \quad \square \\
 \hline
 6 \quad \square \quad 5
 \end{array}$$

24. [Problem Solving 3] *

Fill in the missing number.

$$13 + \square + 35 = 80$$



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	8	9	6	10	4	1	3	5	7	2
+ 3										

2. [- Whole Numbers to 10]

	7	10	9	14	8	12	13	11	6	15
- 5										

3. [× Whole Numbers to 10]

	10	6	4	5	2	1	7	3	8	9
× 2										

4. [÷ Whole Numbers to 10]

	20	8	4	40	12	28	24	16	36	32
÷ 4										

5. [Large Number +]

$$\begin{array}{r} 142 \\ + 332 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$$

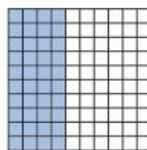
11. [Decimals / Fractions / Percentages]

one = hundredths

6. [Large Number -]

$$\begin{array}{r} 96 \\ - 32 \\ \hline \end{array}$$

9. [Decimals]



tenths = 0.

12. [Place Value]

Name the place of the underlined digit in the number 452. [Hint: Is it units, tens or hundreds?]

13. [Operations]

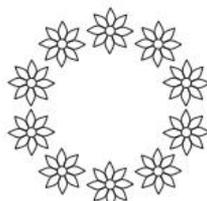
$6 - 4 = 4 - 6$
True or false?

7. [Powers of 10 ×, ÷]

$$\begin{array}{r} 274 \\ \times 10 \\ \hline \end{array}$$

10. [Fractions]

Shade in $\frac{3}{10}$ of the group of flowers.



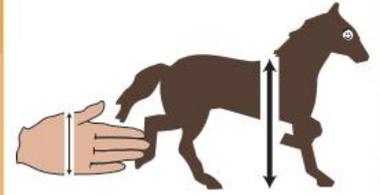
14. [Exploring Numbers]

Write in numerals:
five hundred and seventeen

15. [Number Patterns / Equations]

5, 8, 11, 14, 17,

**YOU'VE GOT TO
HAND IT TO THEM**



Traditionally, the height of a horse from the ground to the shoulder blades is given in **HANDS**.

A hand was originally the width of an adult hand. Now it is equal to 4 inches or 10.16 centimetres.

PHAR LAP was 17 hands high.

16. [Units of Measurement]

Choose the appropriate unit: millilitres, litres or megalitres.

"The amount of blood in the average adult person is approximately 5"

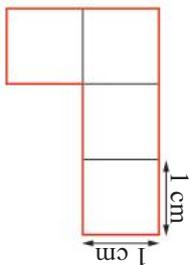
17. [Measuring]

Estimate the length of the hammer head.



18. [Perimeter / Area]

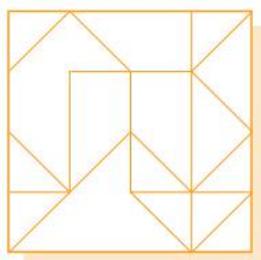
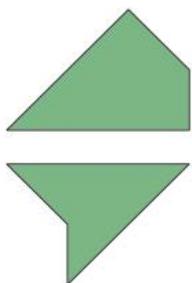
Find the perimeter of this shape.



19. [Shapes]

One of these shapes is hidden in the maze. Find it and colour it in.

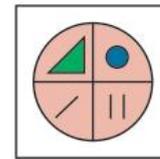
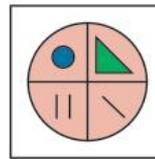
[Same size and orientation.]



20. [Location / Transformation]

Which movement has transformed this shape?

- A) flip (reflection)
- B) slide (translation)
- C) turn (rotation)



Position 1

Position 2

21. [Statistics / Probability]

Which age group of the New Zealand population is the second largest?

Age structure of New Zealand



22. [Problem Solving 1] *

Jacinta's name is fifteenth from the top on the class roll. It is also fifteenth from the bottom. How many students are there in the class?

23. [Problem Solving 2]

Fill in the missing digits in the sum.

$$\begin{array}{r}
 \square 6 \square \\
 + 4 \square 2 \\
 \hline
 798
 \end{array}$$

24. [Problem Solving 3] *

Fill in the missing number.

$$45 - \square + 20 = 28$$



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	5	3	2	4	10	1	8	9	6	7
+ 7										

2. [- Whole Numbers to 10]

	7	4	5	8	11	13	10	12	6	9
- 3										

3. [× Whole Numbers to 10]

	1	4	8	5	2	10	3	7	9	6
× 6										

4. [+ Whole Numbers to 10]

	6	10	14	16	8	18	20	4	12	2
÷ 2										

FATHOM THIS.....

Water depth is measured in fathoms.

One **FATHOM** is equivalent to six feet.

A fathometer can measure very deep oceans by recording the time taken for the echo of a sound to reach the sea bed and then return to the surface of the water.

How deep is the deepest ocean?

Answer: The Marianas Trench in the Pacific Ocean is nearly 6000 fathoms deep. This is nearly 36 000 feet or 11 000 metres.

5. [Large Number +]

$$\begin{array}{r} 5142 \\ + 1054 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 343 \\ \times 2 \\ \hline \end{array}$$

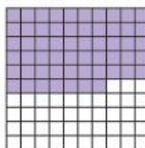
11. [Decimals / Fractions / Percentages]

1 tenth = hundredths

6. [Large Number -]

$$\begin{array}{r} 856 \\ - 213 \\ \hline \end{array}$$

9. [Decimals]



tenths +

hundredths =

12. [Place Value]

In the number 13579 which of the digits 1, 3, 5, 7 or 9 lies in the thousands place?

13. [Operations]

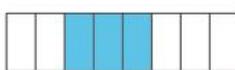
+ 4 = 4 + 7

7. [Powers of 10 ×,+]

$$\begin{array}{r} 60 \\ \times 10 \\ \hline \end{array}$$

10. [Fractions]

What fraction of the rectangle is shaded?



14. [Exploring Numbers]

Write in numerals:
four thousand, three hundred and twenty-one

15. [Number Patterns / Equations]

3, 12, 21, 30,

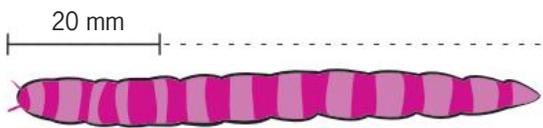
16. [Units of Measurement]

How many of these objects are likely to have a mass less than 1 kilogram?

- A dry, inflated NRL football
- A long, woollen overcoat
- A banana
- A glass of water

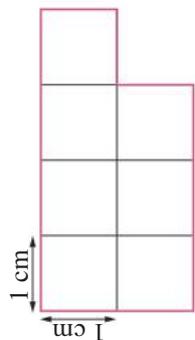
17. [Measuring]

Estimate the length of the worm.



18. [Perimeter / Area]

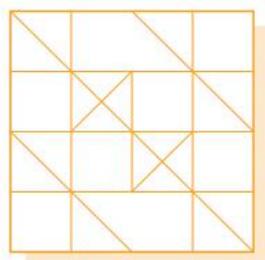
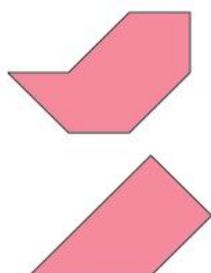
Find the perimeter of this shape.



19. [Shapes]

One of these shapes is hidden in the maze. Find it and colour it in.

[Same size and orientation.]



20. [Location / Transformation]

Which movement has transformed this shape?

- A) flip (reflection)
- B) slide (translation)
- C) turn (rotation)



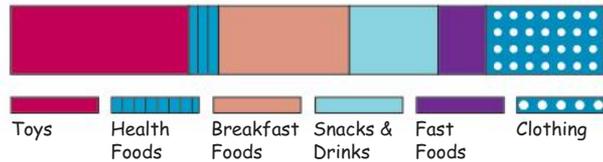
Position 1

Position 2

21. [Statistics / Probability]

Which type of advertisement is the second most common during children's TV programs?

Advertisements During Children's TV Programs



22. [Problem Solving 1] *

On a shelf, the Maths book is the eleventh from the left or tenth from the right. How many books are there on the shelf?

23. [Problem Solving 2]

Fill in the missing digits in the subtraction.

$$\begin{array}{r}
 \square 9 6 \\
 - 5 \square 4 \\
 \hline
 1 7 \square
 \end{array}$$

24. [Problem Solving 3] *

Place a +, - or × sign in each box to make the equation correct.

$$0 \square 8 \square 8 = 8$$



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	4	8	5	7	1	6	2	3	10	9
+ 4										

2. [- Whole Numbers to 10]

	18	13	12	16	11	14	17	9	15	10
- 8										

3. [× Whole Numbers to 10]

	9	1	4	7	2	3	5	10	8	6
× 3										

4. [÷ Whole Numbers to 10]

	7	4	5	1	9	2	10	6	8	3
÷ 1										

5. [Large Number +]

$$\begin{array}{r} 122 \\ 311 \\ + 504 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 122 \\ \times 4 \\ \hline \end{array}$$

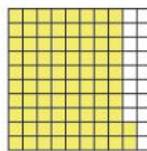
11. [Decimals / Fractions / Percentages]

4 tenths = hundredths

6. [Large Number -]

$$\begin{array}{r} 947 \\ - 533 \\ \hline \end{array}$$

9. [Decimals]



tenths +

hundredths =

0.

12. [Place Value]

In the number 24689 which of the digits 2, 4, 6, 8 or 9 lies in the hundreds place?

13. [Operations]

6 + 3 = + 6

7. [Powers of 10 ×,+]

$$\begin{array}{r} 1382 \\ \times 10 \\ \hline \end{array}$$

10. [Fractions]

What fraction of the stars is shaded?



—

14. [Exploring Numbers]

Write in numerals:
nine thousand and twenty-six

15. [Number Patterns / Equations]

4, 11, 18, 25, 32,

HOW MANY BITS IN A BYTE?

Computers use bits of information.

A **BIT** of information is given by a single microscopic on/off switch used to represent 1 or 0 in binary notation. (Each Bit is either on or off.)



A **BYTE** has 8 **BITS**. A **BYTE** might represent a single letter or digit or punctuation mark.

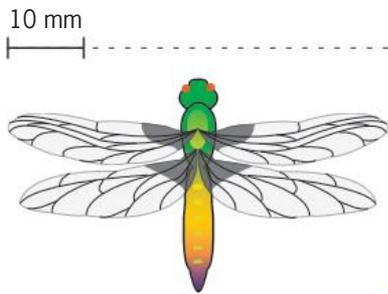
16. [Units of Measurement]

How many of these objects are likely to have a capacity less than 1 litre?

- A mug of hot chocolate
- A water tank
- A medicine bottle
- An esky

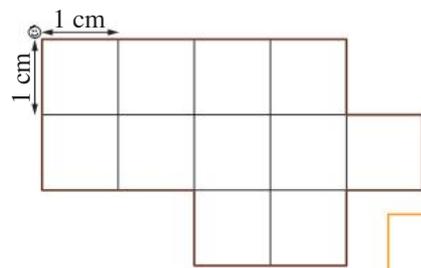
17. [Measuring]

Estimate the wingspan of the dragonfly.



18. [Perimeter / Area]

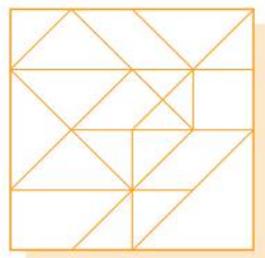
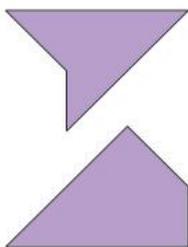
Find the perimeter of this shape.



19. [Shapes]

One of these shapes is hidden in the maze. Find it and colour it in.

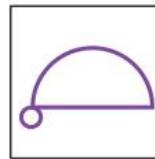
[Same size and orientation.]



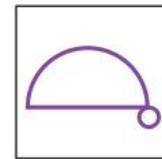
20. [Location / Transformation]

Which movement has transformed this shape?

- A) flip (reflection)
- B) slide (translation)
- C) turn (rotation)



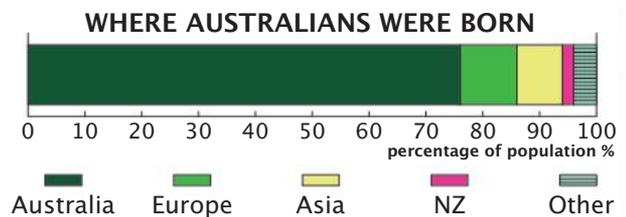
Position 1



Position 2

21. [Statistics / Probability]

In what region were approximately 10% of Australians born?



22. [Problem Solving 1] *

Linda was in the middle of the queue, sixteenth from the start and sixteenth from the end. How many people were in the queue?

23. [Problem Solving 2]

Fill in the missing digits in the subtraction.

$$\begin{array}{r} 3 \square 8 \\ - \square 4 \square \\ \hline 2 \ 2 \ 3 \end{array}$$

24. [Problem Solving 3] *

Place a +, - or × sign in each box to make the equation correct.

$$6 \square 8 \square 2 = 46$$



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	4	1	3	9	10	5	8	2	6	7
+ 10										

2. [- Whole Numbers to 10]

	15	12	8	14	9	11	16	10	7	13
- 6										

3. [× Whole Numbers to 10]

	5	3	2	4	10	1	8	9	6	7
× 5										

4. [+ Whole Numbers to 10]

	20	28	32	24	40	36	8	4	16	12
÷ 4										

ADDITION SHORTCUTS

Whenever you want to add 9 to a number, add 10 first and then subtract 1.

example: $6 + 9$
 $= 6 + 10$ subtract 1
 $= 16$ subtract 1
 The answer is 15.

See if you can do these:

a) $8 + 9$

b) $17 + 9$



How would you add 99?

Answer: a) 17, b) 26
 Add 100, then subtract 1

5. [Large Number +]

$$\begin{array}{r} 43 \\ + 46 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \square \\ 3 \overline{) 90} \end{array}$$

11. [Decimals / Fractions / Percentages]

Which of these fractions equals 0.3?

A) $\frac{1}{3}$ B) $\frac{3}{10}$ C) $\frac{3}{3}$

6. [Large Number -]

$$\begin{array}{r} 79 \\ - 24 \\ \hline \end{array}$$

9. [Decimals]

Write as a decimal: one tenth.

12. [Place Value]

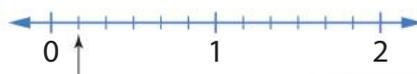
What is the value of the digit 7 in the number 473?

7. [Powers of 10 ×, ÷]

$40 \div 10 =$

10. [Fractions]

Name the fraction shown by the arrow on the number line.



13. [Operations]

$9 \times \square = 2 \times 9$

14. [Exploring Numbers]

Write the number 78 in words.

15. [Number Patterns / Equations]

$\square + 12 = 17$

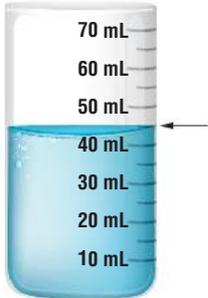
16. [Units of Measurement]

Convert to centimetres:

1 metre = cm

17. [Measuring]

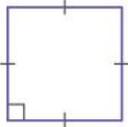
How much water is in the measuring cylinder?



mL

18. [Perimeter / Area]

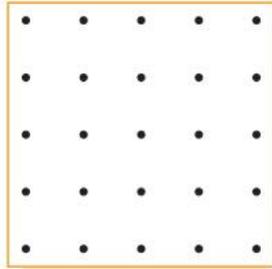
Use a ruler to measure the length of one side of the square in millimetres.



mm

19. [Shapes]

Draw a square on the dotted grid. Make sure that all the vertices are on a dot.



20. [Location / Transformation]

Whose locker is located at C1?

4	McLeod	Hart	Bunton	Wade	Silvagni	Jones
3	Coleman	Hird	Lockett	Jesaulenko	Price	Buckley
2	Neitz	Voss	Reynolds	Flower	Ablett	Shaw
1	Quinlan	Skilton	Bartlett	Ricciuto	Doull	Coventry
	A	B	C	D	E	F

21. [Statistics / Probability]

On average, how many hours of sunshine are there on a summer's day in Wellington?

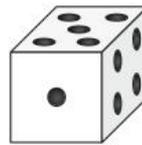
Sunshine hours in Wellington

	= 2 sunshine hours
Summer	
Autumn	
Winter	
Spring	

hours

22. [Problem Solving 1] *

What is the sum of the numbers on the three hidden faces of the die?



23. [Problem Solving 2] *

A snail attempts to climb a 4 metre high wall. In one hour it climbs up 2 metres. The next hour it rests and slips back 1 metre. How long does it take to reach the top of the wall if it keeps climbing and slipping in this way?

hours

24. [Problem Solving 3]

Fill in the missing numbers to produce correct equations in every row and column.

	-		=	3
+		-		+
	+	1	=	
=		=		=
8	-	1	=	



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	3	10	7	1	4	2	9	8	5	6
+ 3										

2. [- Whole Numbers to 10]

	6	11	10	12	13	15	9	8	7	14
- 5										

3. [× Whole Numbers to 10]

	4	8	5	7	1	6	2	3	10	9
× 1										

4. [+ Whole Numbers to 10]

	16	64	24	48	80	72	56	32	40	8
÷ 8										

MULTIPLICATION SHORTCUTS

Multiplications can sometimes be made a lot easier by grouping the terms conveniently before multiplying:

$$3 \times 5 \times 4 \times 2 = (5 \times 2) \times (3 \times 4) = 10 \times 12 = 120$$



$$4 \times 7 \times 25 \times 3 = (4 \times 25) \times (7 \times 3) = 100 \times 21 = 2100$$

Try for yourself:

a) $2 \times 3 \times 5 \times 8$

b) $11 \times 50 \times 2 \times 3$

Answers: a) 240, b) 3300

5. [Large Number +]

$$\begin{array}{r} 33 \\ 51 \\ + 12 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \square \\ 2 \overline{) 26} \end{array}$$

11. [Decimals / Fractions / Percentages]

Which of these decimal numbers equals $\frac{5}{10}$?

A) 1.5 B) 1.05 C) 0.5

6. [Large Number -]

$$\begin{array}{r} 748 \\ - 323 \\ \hline \end{array}$$

9. [Decimals]

Write as a decimal: four and nine tenths.

12. [Place Value]

What is the value of the digit 2 in the number 6281?

7. [Powers of 10 ×, ÷]

$$270 \div 10 =$$

10. [Fractions]

Name the fraction shown by the arrow on the number line.



13. [Operations]

$$8 \div 2 = 2 \div 8$$

True or false?

14. [Exploring Numbers]

Write the number 214 in words.

15. [Number Patterns / Equations]

$$5 + \square = 13$$

16. [Units of Measurement]

Convert to kilograms:

1000 g = kg

17. [Measuring]

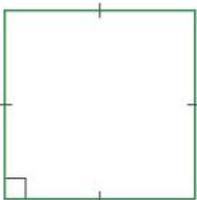
At what speed is the car travelling?



km/h

18. [Perimeter / Area]

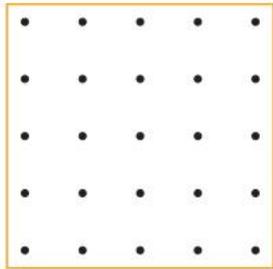
Use a ruler to measure the length of one side of the square in centimetres.



cm

19. [Shapes]

Draw a triangle with two equal sides on the dotted grid. Make sure that all the vertices are on a dot.



20. [Location / Transformation]

The sneaker is located at C2. Where is the gumboot located on the grid?



21. [Statistics / Probability]

The length of the Los Angeles Metrolink railway system is closest to:

- A) 250 miles
- B) 500 miles
- C) 600 miles

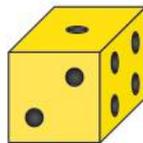
Major Railway Systems in the World

New York - LIRR				
Chicago - Metra				
New York/Philadelphia - NJT				
San Francisco/San Jose - Caltrain				
Los Angeles - Metrolink				
Boston - MBTA Commuter Rail				

= 200 miles

22. [Problem Solving 1] *

What is the sum of the numbers on the three hidden faces of the die?



23. [Problem Solving 2] *

Mr. Bean tries to push his car up an 800 m slope to a petrol station. In one hour he pushes the car 200 m up the hill. The next hour he rests and the car rolls back 100 m. How long does it take to reach the top of the hill if he keeps pushing and resting in this way?

hours

24. [Problem Solving 3]

Fill in the missing numbers to produce correct equations in every row and column.

8	÷	2	=	<input type="text" value="4"/>
×	<input type="text" value="3"/>	÷	<input type="text" value="6"/>	×
<input type="text" value="12"/>	×	<input type="text" value="3"/>	=	<input type="text" value="36"/>
=	<input type="text" value="3"/>	=	<input type="text" value="6"/>	=
<input type="text" value="12"/>	÷	1	=	16



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	4	1	3	9	10	5	8	2	6	7
+ 5										

2. [- Whole Numbers to 10]

	13	20	14	17	19	15	12	18	16	11
- 10										

3. [× Whole Numbers to 10]

	6	10	1	3	7	4	5	8	2	9
× 4										

4. [+ Whole Numbers to 10]

	10	4	2	20	6	14	12	8	18	16
÷ 2										

MULTIPLICATION SHORTCUTS

Because $99 = 100 - 1$, to multiply by 99 just multiply by 100 then subtract the original number.

$$\begin{aligned} 58 \times 99 & \\ = 5800 - 58 & \\ \text{(58} \times 100) \text{ (58} \times 1) & \\ = 5742 & \end{aligned}$$

Try these without using a calculator:

- a) 32×99
- b) 6×99



Answer: a) 3168, b) 594

5. [Large Number +]

$$\begin{array}{r} 132 \\ 205 \\ + 362 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \square \\ 4 \overline{) 84} \end{array}$$

11. [Decimals / Fractions / Percentages]

Write $\frac{53}{100}$ as a decimal.

6. [Large Number -]

$$\begin{array}{r} 986 \\ - 521 \\ \hline \end{array}$$

9. [Decimals]

Write as a decimal:
five hundredths.

12. [Place Value]

In which number does the digit 6 have a smaller value?

- A) 4364
- B) 1621

7. [Powers of 10 ×, ÷]

$$980 \div 10 =$$

10. [Fractions]

Name the fraction shown by the arrow on the number line.



13. [Operations]

$$\square \times 4 = 4 \times 5$$

14. [Exploring Numbers]

Write the number 609 in words.

15. [Number Patterns / Equations]

$$\square + 11 = 25$$

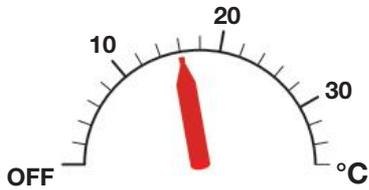
16. [Units of Measurement]

Convert to millilitres:

1 litre = mL

17. [Measuring]

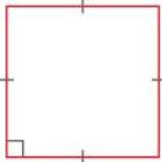
What is the temperature shown by the arrow on the scale?



°C

18. [Perimeter / Area]

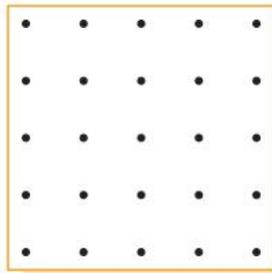
Using a ruler, find the perimeter of the square in centimetres.



cm

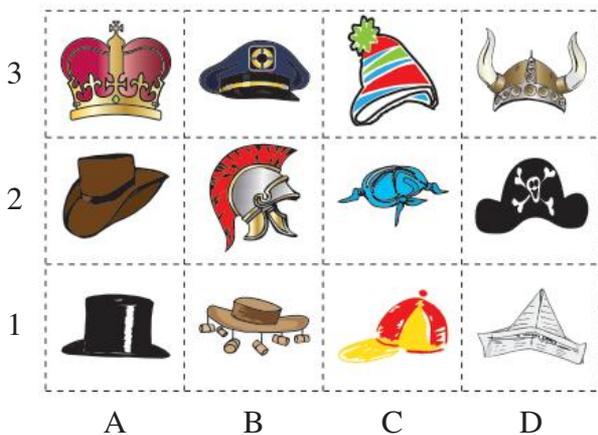
19. [Shapes]

Draw a parallelogram on the dotted grid. Make sure that all the vertices are on a dot.



20. [Location / Transformation]

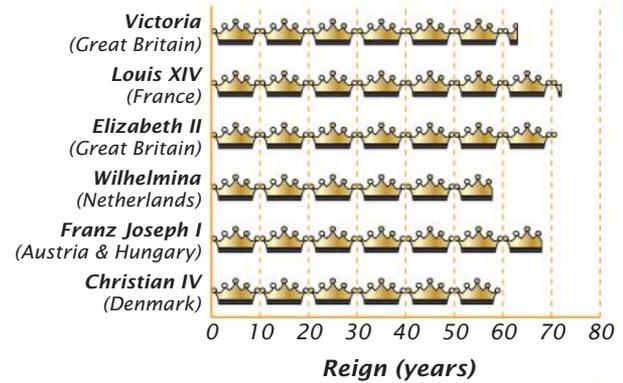
What is the grid reference of the cowboy hat?



21. [Statistics / Probability]

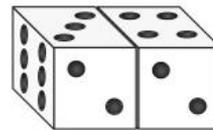
How many of the European monarchs shown below reigned for more than 60 years?

European Monarchs (kings and queens)



22. [Problem Solving 1] *

What is the sum of the numbers on the seven hidden faces of the dice?



23. [Problem Solving 2] *

An indoor cricket team makes 7 runs in one over but loses 5 runs in the next. If the team continues scoring in this way, how many overs will they take to reach 15 runs?

24. [Problem Solving 3]

Fill in the missing numbers to produce correct equations in every row and column.

	+	10	=	
-		+		-
50	-		=	10
=		=		=
	+		=	80



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	8	9	6	10	4	1	3	5	7	2
+ 9										

2. [- Whole Numbers to 10]

	5	13	11	6	7	8	9	14	12	10
- 4										

3. [× Whole Numbers to 10]

	9	6	2	8	7	3	4	10	1	5
× 3										

4. [+ Whole Numbers to 10]

	20	5	15	25	35	10	40	45	30	50
÷ 5										

5. [Large Number +]

$$\begin{array}{r} 2301 \\ 2224 \\ + 4363 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$3 \overline{) 96}$$

11. [Decimals / Fractions / Percentages]

Write $\frac{263}{1000}$ as a decimal.

6. [Large Number -]

$$\begin{array}{r} 5423 \\ - 3101 \\ \hline \end{array}$$

9. [Decimals]

Write as a decimal:
twenty-three hundredths.
[Or: Two tenths, three hundredths.]

12. [Place Value]

In which number does the digit 4 have a greater value?

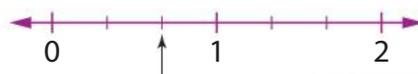
- A) 84561
B) 97423

7. [Powers of 10 ×, ÷]

$330 \div 10 =$

10. [Fractions]

Name the fraction shown by the arrow on the number line.



13. [Operations]

$9 \times 6 = \square \times 9$

14. [Exploring Numbers]

Write the number 930 in words.

15. [Number Patterns / Equations]

$16 + \square = 29$

SUBTRACTION SHORTCUTS

To subtract 9 from a number, take 10 first and then add 1.

example: $27 - 9$
 $= 27 - 10$ add 1
 $= 17$ add 1
 The answer is 18.

See if you can do these:

- a) $38 - 9$
b) $157 - 9$



How would you subtract 99?

Answer: a) 29, b) 148
Take 100, then add 1.

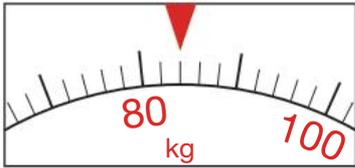
16. [Units of Measurement]

Convert to millimetres:

1 centimetre =

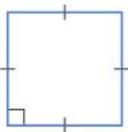
17. [Measuring]

How many kilograms are shown by the arrow on the scale?



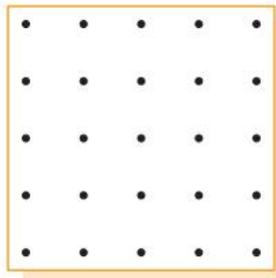
18. [Perimeter / Area]

Using a ruler, find the perimeter of the square in centimetres.



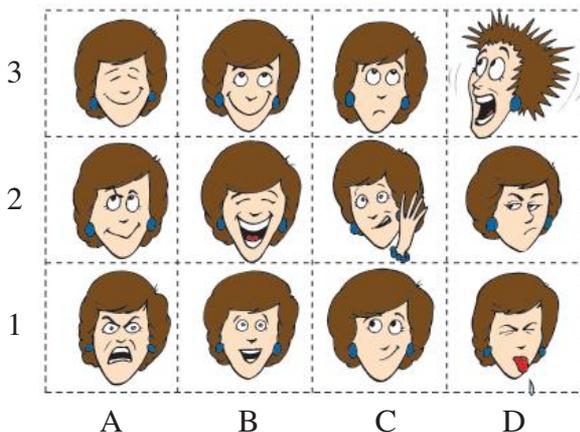
19. [Shapes]

Draw a pentagon on the dotted grid. Make sure that all the vertices are on a dot.



20. [Location / Transformation]

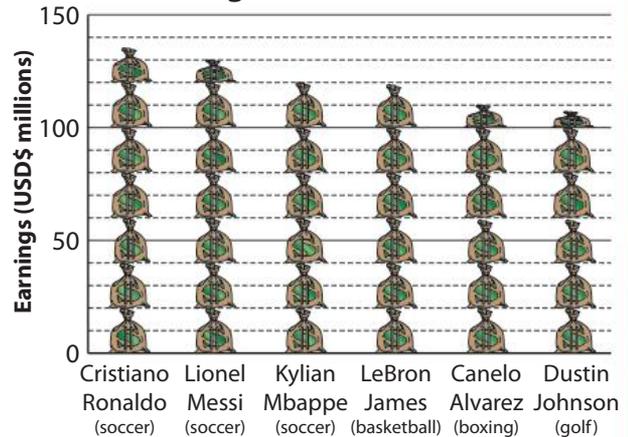
Where is the most frightened person located on the grid?



21. [Statistics / Probability]

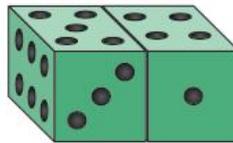
Name the sportsman with earnings closest to \$130 million in 2023.

World's Highest Paid Athletes in 2023



22. [Problem Solving 1] *

What is the sum of the numbers on the seven hidden faces of the dice?



23. [Problem Solving 2] *

A gambler begins with \$21. In the first minute he loses \$5. In the next minute he wins \$3. How long does he take to lose his \$21 if he continues losing and winning in this way?

24. [Problem Solving 3]

Fill in the missing numbers to produce correct equations in every row and column.

4	×		=	32
×		×		+
	×	2	=	
=		=		=
	+		=	48

MATHS MATE



Name:

Class:

Teacher:

Worksheet Results

Term 2

	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Skill Builder links	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Skill Builder links
NUMBER & ALGEBRA	1	1	1	1	1.1,2,3,4	1	1	1	1	1.1,2,3,4
	2	2	2	2	2.1,2,3,4,5	2	2	2	2	2.1,2,3,4,5
	3	3	3	3	3.3,4,5	3	3	3	3	3.1,2,3,4
	4	4	4	4	4.1,2	4	4	4	4	4.1,2
	5	5	5	5	5.2,3	5	5	5	5	5.2,3
	6	6	6	6	6.2,3	6	6	6	6	6.2
	7	7	7	7	7.1,2	7	7	7	7	7.3,4
	8	8	8	8	8.2	8	8	8	8	8.4
	9	9	9	9	9.3	9	9	9	9	9.4
	10	10	10	10	10.3,4	10	10	10	10	10.5
	11	11	11	11	11.5	11	11	11	11	11.4
	12	12	12	12	12.3,4	12	12	12	12	12.5
	13	13	13	13	13.3,4	13	13	13	13	13.5
	14	14	14	14	14.1,4	14	14	14	14	14.5
	15	15	15	15	15.3	15	15	15	15	15.4
MEASUREMENT & SPACE	16	16	16	16	16.3	16	16	16	16	16.4
	17	17	17	17	17.3	17	17	17	17	17.4
	18	18	18	18	18.3	18	18	18	18	18.3
	19	19	19	19	19.3	19	19	19	19	19.4
	20	20	20	20	20.3,4	20	20	20	20	20.4,5
S & P	21	21	21	21	21.5,6	21	21	21	21	21.7,8
	22	22	22	22	Hints & Solutions	22	22	22	22	Hints & Solutions
PROBLEM SOLVING	23	23	23	23	Hints & Solutions	23	23	23	23	Hints & Solutions
	24	24	24	24	Hints & Solutions	24	24	24	24	Hints & Solutions
Total Correct										





Name:

Due Date:/...../.....

Parent's Signature:

1. [+ Whole Numbers to 10]

	9	10	4	5	2	3	7	6	8	1
+ 5										

2. [- Whole Numbers to 10]

	12	16	9	17	14	13	10	15	18	11
- 6										

3. [× Whole Numbers to 10]

	9	7	3	6	1	8	4	5	2	10
× 8										

4. [÷ Whole Numbers to 10]

	5	2	9	10	1	6	7	4	8	3
÷ 1										

IN OTHER WORDS!

multiplication

(a bracket)

power of

multiply

product

square

lots of

times

by



give

split

group

divide

out of



division

quotient

how many

(the fraction line)

5. [Large Number +]

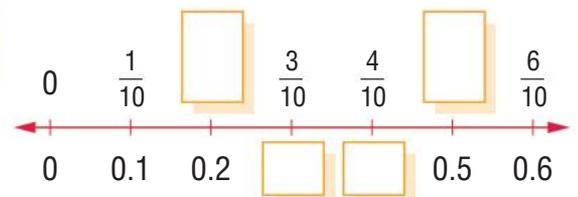
$$\begin{array}{r} 226 \\ + 435 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 13 \\ \times 6 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

Complete the missing fractions and decimals on this number line.

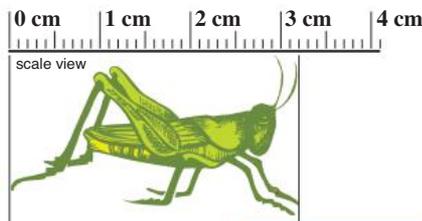


6. [Large Number -]

$$\begin{array}{r} 70 \\ - 5 \\ \hline \end{array}$$

9. [Decimals]

What is the length of the grasshopper?



cm

12. [Place Value]

Which number is smaller?

5454 or 5455

7. [Powers of 10 ×,+]

$$\begin{array}{r} 49 \\ \times 100 \\ \hline \end{array}$$

10. [Fractions]

Which of the following fractions equal 1?

A) $\frac{1}{3}$ B) $\frac{2}{2}$ C) $\frac{3}{3}$ D) $\frac{2}{3}$

and

13. [Operations]

$9 + 0 = 0$

True or false?

14. [Exploring Numbers]

Write in numerals:

seventy thousand,

eight hundred

15. [Number Patterns / Equations]

19, 17, 15, 13, 11,

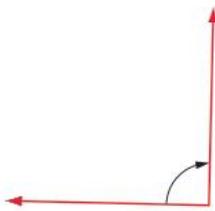
16. [Units of Measurement]

Convert to metres:

800 cm = m

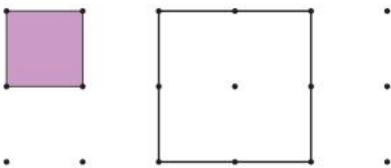
17. [Measuring]

Is the angle "less than", "equal to" or "greater than" a right angle?



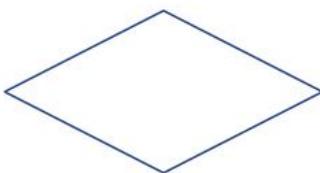
18. [Perimeter / Area]

How many small squares are needed to cover the larger square?



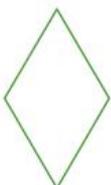
19. [Shapes]

How many interior angles does a rhombus have?



20. [Location / Transformation]

Draw the lines of symmetry through the rhombus. How many lines of symmetry does the rhombus have?



21. [Statistics / Probability]

Based on the values in this table, calculate the number of calories of energy in 200 g of cherries.

Composition of Fruit (per 100 grams)

FRUIT	PROTEIN (grams)	FIBRE (grams)	ENERGY VALUE (calories)
Apricots	5	24	182
Bananas	1	2	85
Cherries	1	1	70
Grapes	1	1	69
Watermelon	trace	1	21
Oranges	1	2	49
Tomatoes	1	1	14

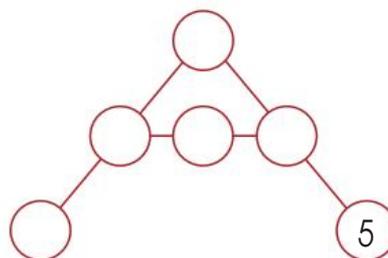
calories

22. [Problem Solving 1] *

How many numbers between 1 and 60 are divisible by 11?

23. [Problem Solving 2]

Place the numbers 6, 7, 8, 9 and 10 in the circles so that the sum on every line is 24.



24. [Problem Solving 3] *

Eight school friends gave each other Valentine's Day cards. How many cards were exchanged?



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	7	2	8	9	6	10	4	1	3	5
+ 9										

2. [- Whole Numbers to 10]

	12	20	18	13	16	19	14	11	15	17
- 10										

3. [× Whole Numbers to 10]

	4	1	3	5	7	2	8	9	6	10
× 5										

4. [÷ Whole Numbers to 10]

	24	6	18	30	42	12	48	54	36	60
÷ 6										

IN OTHER WORDS!

altogether
increase
addition
positive
sum of
total
plus
and
add



less
take
minus
remove
negative
subtract
less than
decrease
take away
difference
subtraction



5. [Large Number +]

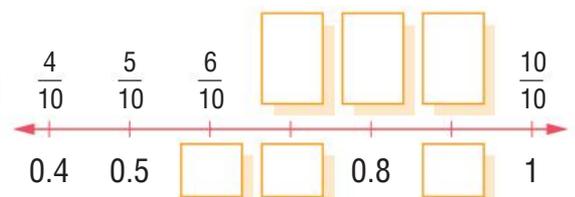
$$\begin{array}{r} 53 \\ 13 \\ + 27 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

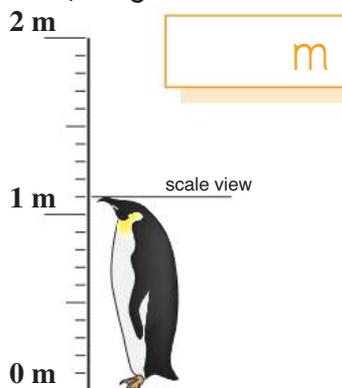
Complete the missing fractions and decimals on this number line.



6. [Large Number -]

$$\begin{array}{r} 40 \\ - 4 \\ \hline \end{array}$$

9. [Decimals]
What is the height of the penguin?



12. [Place Value]

$43\,443 < 43\,344$
True or false?

7. [Powers of 10 ×, ÷]

$$\begin{array}{r} 32 \\ \times 100 \\ \hline \end{array}$$

10. [Fractions]
Write a fraction equal to 1 that has a denominator of 6.

13. [Operations]

$7 \times 1 = 7$
True or false?

14. [Exploring Numbers]

Write in numerals:
nine hundred thousand

15. [Number Patterns / Equations]

27, 23, 19, 15, 11,

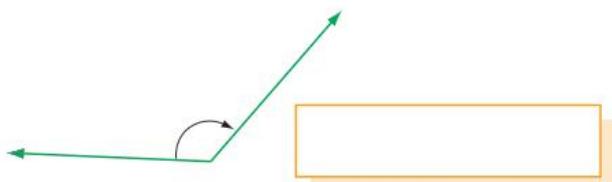
16. [Units of Measurement]

Convert to metres:

6 km = m

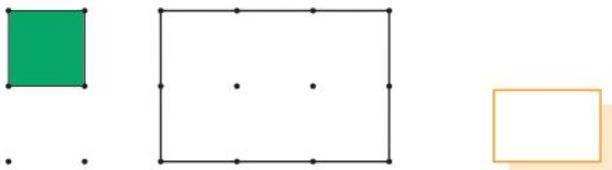
17. [Measuring]

Is the angle "less than", "equal to" or "greater than" a right angle?



18. [Perimeter / Area]

How many small squares are needed to cover the larger rectangle?



19. [Shapes]

How many sides does a hexagon have?



20. [Location / Transformation]

Draw the lines of symmetry through the square. How many lines of symmetry does the square have?



21. [Statistics / Probability]

Calculate the total number of dangerous bony fish and jellyfish species.

Potentially dangerous marine animals
(in Australian waters)

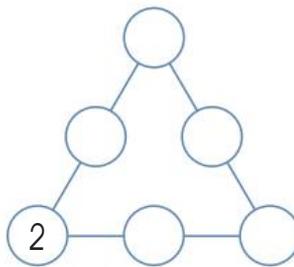
Species	Number of species
Starfish	3
Jellyfish	4
Octopuses	2
Sharks (& relatives)	7
Bony fish	23
Sea snakes	32

22. [Problem Solving 1] *

How many numbers between 1 and 60 are divisible by 9?

23. [Problem Solving 2]

Fill in the digits 1, 3, 4, 5 and 6 so that the sum on every side of the triangle is 9.



24. [Problem Solving 3] *

Our school colours are blue, green, white and yellow. Each class in the school has a banner painted in two of the four school colours - blue and white, blue and green and so on. If every possible two colour combination has been used, how many classes are there in the school?



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	9	7	8	6	5	3	4	1	2	10
+ 6										

2. [- Whole Numbers to 10]

	16	13	14	18	15	20	19	12	11	17
- 8										

3. [× Whole Numbers to 10]

	10	7	2	5	4	6	1	8	3	9
× 4										

4. [+ Whole Numbers to 10]

	9	18	24	12	3	21	15	30	6	27
÷ 3										

5. [Large Number +]

$$\begin{array}{r} 339 \\ + 214 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 44 \\ \times 3 \\ \hline \end{array}$$

6. [Large Number -]

$$\begin{array}{r} 50 \\ - 8 \\ \hline \end{array}$$

9. [Decimals]

Show with an arrow the number 5.7 on the scale.



11. [Decimals / Fractions / Percentages]

Name the fraction shown by the arrow on this number line.



12. [Place Value]

Place in order from largest to smallest:

157, 150, 107, 155, 175

13. [Operations]

$$\square + 0 = 5$$

7. [Powers of 10 ×,+]

$$\begin{array}{r} 653 \\ \times 100 \\ \hline \end{array}$$

10. [Fractions]

Two thirds of the students are girls. What fraction of the students are boys?

14. [Exploring Numbers]

Write 8600 in words.

IN OTHER WORDS!

nothing
nought
cipher
zilch
duck
none
zero
love
null
zip
nil



rate
percent
out of 100
divide by 100

15. [Number Patterns / Equations]

37, 31, 25, 19, 13,

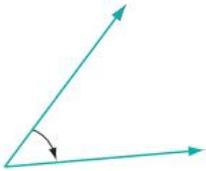
16. [Units of Measurement]

Convert to millimetres:

5 m = mm

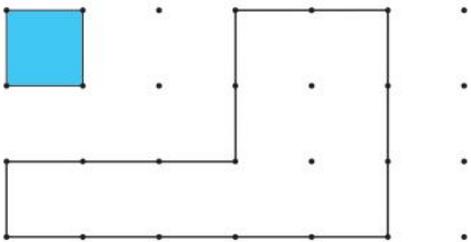
17. [Measuring]

Is the angle "less than", "equal to" or "greater than" a right angle?



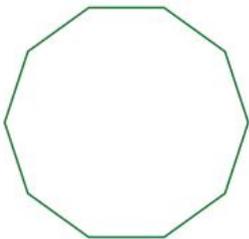
18. [Perimeter / Area]

How many small squares are needed to cover this shape?



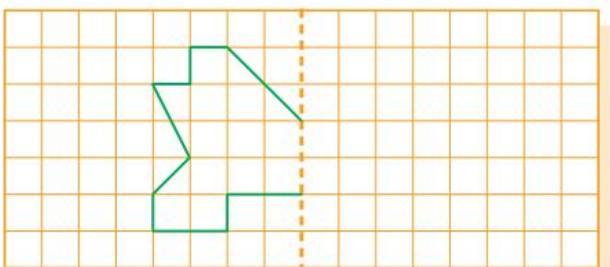
19. [Shapes]

How many sides does a decagon have?



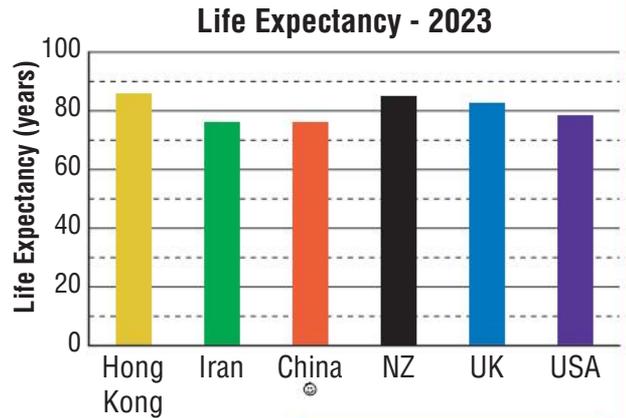
20. [Location / Transformation]

Redraw this shape after reflecting it in the dotted line.



21. [Statistics / Probability]

Which of the countries shown below had the highest life expectancy in 2023?

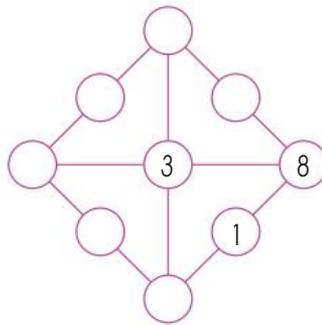


22. [Problem Solving 1] *

How many numbers between 17 and 61 are divisible by 8?

23. [Problem Solving 2]

Fill in the digits 2, 4, 5, 6, 7 and 9 so that the sum on each of the six straight lines is 18.



24. [Problem Solving 3] *

At our camp we were told to make as many different sandwiches as possible. We had cheese, tomato, lettuce and ham available so we made sandwiches with no filling, some with just ham, others with ham and cheese, others with ham, cheese and lettuce and so on. How many different sandwiches could we make?



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	3	7	4	1	2	6	10	9	8	5
+ 8										

2. [- Whole Numbers to 10]

	5	12	13	11	7	9	6	10	4	8
- 2										

3. [× Whole Numbers to 10]

	3	7	6	10	2	4	9	5	8	1
× 3										

4. [÷ Whole Numbers to 10]

	25	35	5	50	10	45	30	20	15	40
÷ 5										

IN OTHER WORDS!

represents

whole lot

value of

same as

answers

will be

results

means

equals

is



cut

split

divide

fraction

5. [Large Number +]

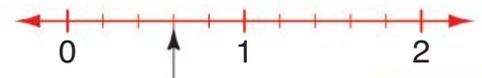
$$\begin{array}{r} 257 \\ + 528 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 38 \\ \times 7 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

Name the fraction shown by the arrow on this number line.



6. [Large Number -]

$$\begin{array}{r} 60 \\ - 6 \\ \hline \end{array}$$

9. [Decimals]

Show with an arrow the number 4.9 on the scale.



12. [Place Value]

Place in order from smallest to largest:

2131, 2331, 2313, 2311

7. [Powers of 10 ×, ÷]

$$\begin{array}{r} 708 \\ \times 100 \\ \hline \end{array}$$

10. [Fractions]

If a portion of three eighths of the cake was eaten, what fraction of the cake remains?

13. [Operations]

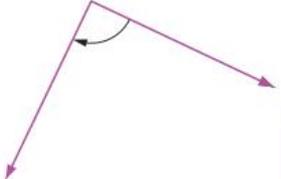
$$5 \times \square = 5$$

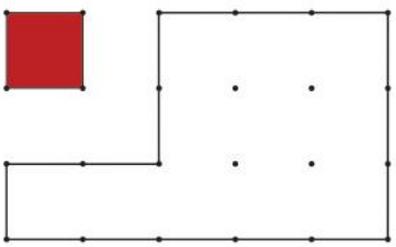
14. [Exploring Numbers]

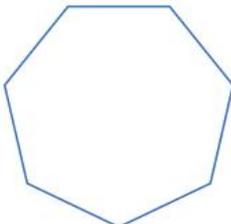
Write 2009 in words.

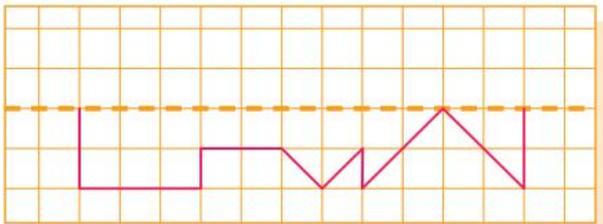
15. [Number Patterns / Equations]
 50, 42, 34, 26, 18,

16. [Units of Measurement]
 Convert to centimetres:
 30 mm =

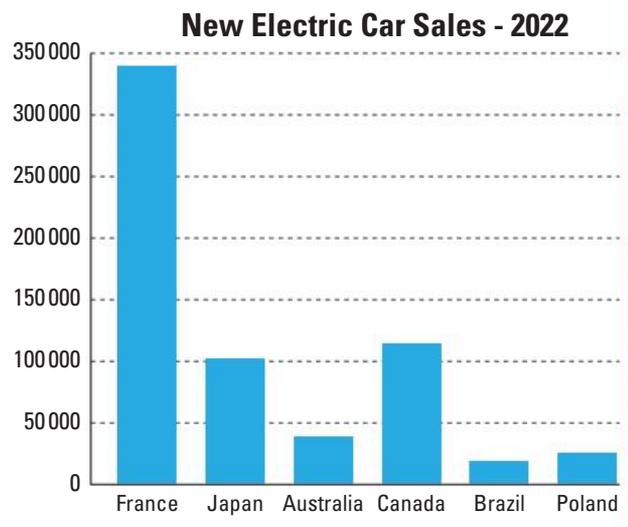
17. [Measuring]
 Is the angle "less than", "equal to" or "greater than" a right angle?


18. [Perimeter / Area]
 How many small squares are needed to cover this shape?


19. [Shapes]
 How many interior angles does a heptagon have?


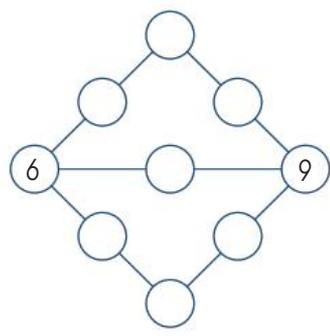
20. [Location / Transformation]
 Redraw this shape after reflecting it in the dotted line.


21. [Statistics / Probability]
 How many new electric cars were sold in France in 2022? Round the answer to the nearest hundred thousand.



22. [Problem Solving 1] *
 How many numbers between 20 and 31 are divisible by 3?

23. [Problem Solving 2]
 Fill in the digits 1, 2, 3, 4, 5, 7, 8 so that the sum on each of the five straight lines is 17.



24. [Problem Solving 3] *
 Each person in our class was asked to select two different days of the week for farm duty. Students could choose Saturday and Monday or Thursday and Friday and so on. How many different combinations are possible?



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	5	3	2	4	10	1	8	9	6	7
+ 8										

2. [- Whole Numbers to 10]

	11	12	19	13	17	14	16	18	10	15
- 2										

3. [× Whole Numbers to 10]

	7	1	4	2	9	8	5	6	3	10
× 10										

4. [÷ Whole Numbers to 10]

	9	72	81	27	63	54	45	90	36	18
÷ 9										

MULTIPLYING BY 10

For whole numbers just add a zero at the end of the number to multiply by 10. This will change: the units to tens, tens to hundreds, hundreds to thousands, and so on.

Try the following multiplications:

- a) 75×10
- b) 101×10

How would you multiply whole numbers by 100?

Answer: a) 750, b) 1010
Add two zeros at the end of the number.

5. [Large Number +]

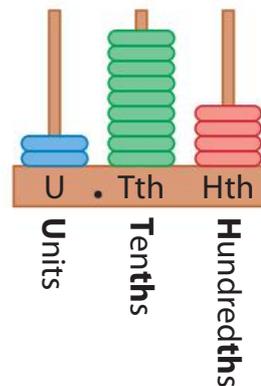
$$\begin{array}{r} 367 \\ + 315 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \square \\ 5 \overline{) 500} \end{array}$$

12. [Place Value]

Write the decimal number.



6. [Large Number -]

$$\begin{array}{r} 63 \\ - 15 \\ \hline \end{array}$$

9. [Decimals]

Write these cents in dollars:

500¢ = \$

10. [Fractions]

Name the mixed number shown by the shaded squares.



13. [Operations] *

$17 - 6 + 2 =$

7. [Powers of 10 ×, ÷]

$800 \div 100 =$

11. [Decimals / Fractions / Percentages]

Write 0.37 as a fraction.

14. [Exploring Numbers]

What is the largest even number less than 16?

15. [Number Patterns / Equations]

- 9 = 5

16. [Units of Measurement]
Convert to grams:

7 kg = g

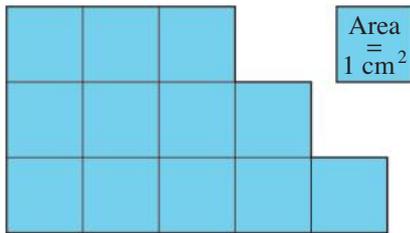
17. [Measuring]
What time in the morning is shown on this clock?



- i) 12-hour time format (AM or PM):

- ii) 24-hour time format:

18. [Perimeter / Area]
Find the area of this shape.

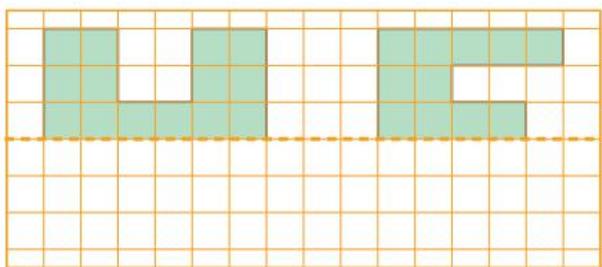


19. [Shapes]
This rectangle has:

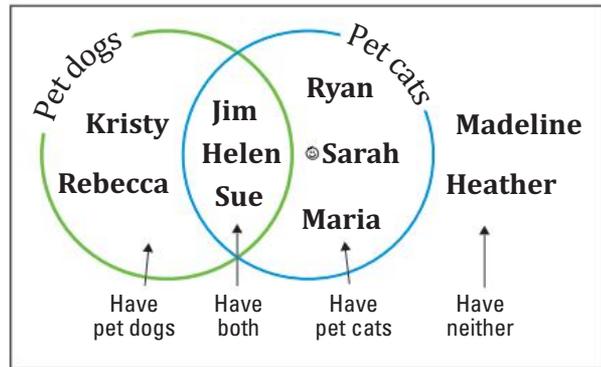


- A) all sides of equal length
- B) one acute angle
- C) no line of symmetry
- D) parallel sides

20. [Location / Transformation]
Draw the reflection of these shapes in the dotted line.



21. [Statistics / Probability]
Does Helen have a dog, a cat or both?

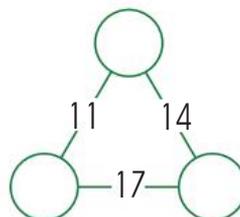


22. [Problem Solving 1] *
What is the weight of seven bricks if three and a half bricks weigh seven kilograms?



23. [Problem Solving 2] *
Mike and Anna have 20 stamps altogether. Mike has 4 more stamps than Anna. How many stamps does Anna have?

24. [Problem Solving 3]
Enter a number in each circle so that the number on each line equals the sum of the numbers at each end.





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	7	5	6	4	1	8	2	9	10	3
+ 7										

2. [- Whole Numbers to 10]

	13	8	10	7	14	9	6	11	12	15
- 3										

3. [× Whole Numbers to 10]

	4	7	9	1	3	6	10	8	5	2
× 1										

4. [+ Whole Numbers to 10]

	9	30	6	21	15	24	12	3	27	18
÷ 3										

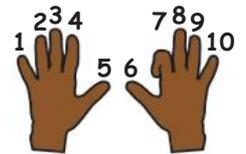
MULTIPLYING BY 9

This rule applies for multiplication of any number from 1 to 9, by 9.

For 7×9 , you bend the seventh finger.

To the left of the bent finger there are 6 fingers and to the right, 3 fingers.

So the result of 7×9 is 63.



5. [Large Number +]

$$\begin{array}{r} 576 \\ + 316 \\ \hline \end{array}$$

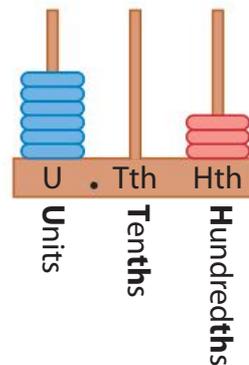
9. [Decimals]

Write these cents in dollars:

36¢ = \$

12. [Place Value]

Write the decimal number.

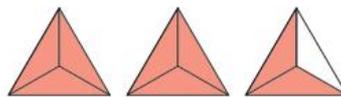


6. [Large Number -]

$$\begin{array}{r} 54 \\ - 27 \\ \hline \end{array}$$

10. [Fractions]

Name the mixed number represented by the shaded triangles.



13. [Operations] *

$13 - 5 - 3 =$

7. [Powers of 10 ×, ÷]

$9400 \div 100 =$

14. [Exploring Numbers]

Write the odd numbers between 12 and 20 in order from largest to smallest.

8. [Large Number ×, ÷]

$$\begin{array}{r} \\ 3 \overline{) 6000} \end{array}$$

11. [Decimals / Fractions / Percentages]

Write 0.7 as a fraction.

15. [Number Patterns / Equations]

$16 - \square = 8$

16. [Units of Measurement]

Convert to tonnes:

4000 kg = t

17. [Measuring]

What time in the afternoon is shown on this watch?



i) 12-hour time format (AM or PM):

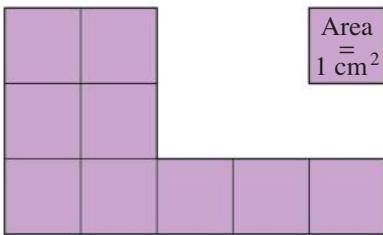
:

ii) 24-hour time format:

:

18. [Perimeter / Area]

Find the area of this shape.



cm²

19. [Shapes]

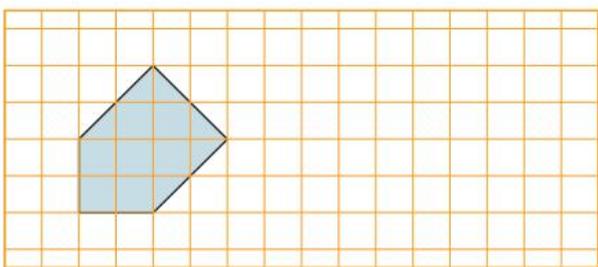
This triangle has:



- A) one line of symmetry
- B) two parallel sides
- C) two perpendicular sides
- D) one obtuse angle

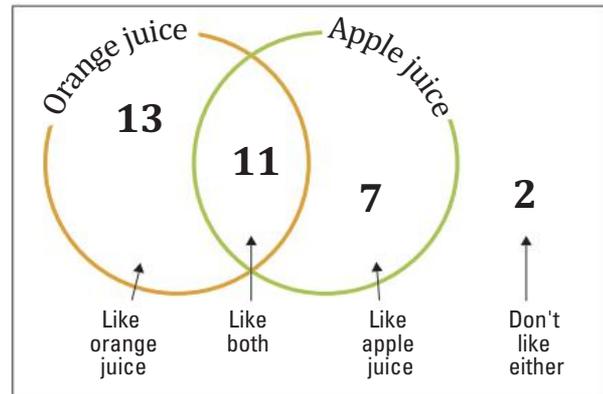
20. [Location / Transformation]

Redraw this shape after translating it 8 units to the right.



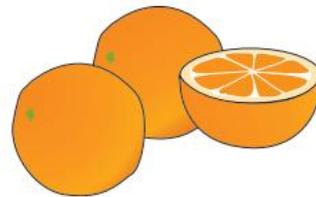
21. [Statistics / Probability]

How many of the children surveyed like apple juice but not orange juice?



22. [Problem Solving 1] *

What is the weight of ten oranges if two and a half oranges of the same size weigh five hundred grams?



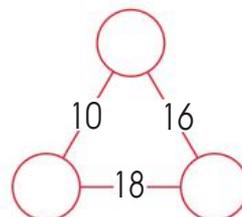
kg

23. [Problem Solving 2] *

In a class of 22 students, there are 4 more girls than boys. How many girls are there in the class?

24. [Problem Solving 3]

Enter a number in each circle so that the number on each line equals the sum of the numbers at each end.





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	9	10	1	6	7	4	8	3	5	2
+ 4										

2. [- Whole Numbers to 10]

	12	17	14	11	18	10	9	16	15	13
- 7										

3. [× Whole Numbers to 10]

	2	6	10	1	3	9	7	4	5	8
× 9										

4. [+ Whole Numbers to 10]

	40	25	5	35	45	15	30	20	10	50
÷ 5										

MULTIPLYING BY 5

Here is an easy way to multiply by 5:

Halve the number then multiply your answer by 10.

e.g. 1) $288 \times 5 = 1440$

$$288 \div 2 = 144$$

$$144 \times 10 = 1440$$

e.g. 2) $46 \times 5 = 230$

$$46 \div 2 = 23$$

$$23 \times 10 = 230$$



5. [Large Number +]

$$\begin{array}{r} 4119 \\ + 3135 \\ \hline \end{array}$$

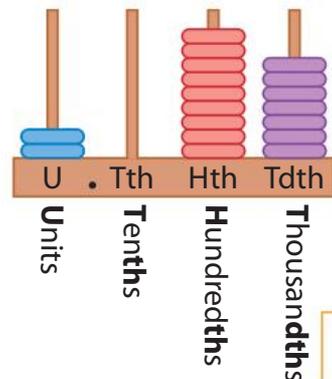
9. [Decimals]

Write these cents in dollars:

225¢ = \$

12. [Place Value]

Write the decimal number.



6. [Large Number -]

$$\begin{array}{r} 83 \\ - 49 \\ \hline \end{array}$$

10. [Fractions]

Name the mixed number shown by the arrow on the number line.



13. [Operations] *

$2 \times 3 \times 3 =$

7. [Powers of 10 ×, ÷]

$2200 \div 100 =$

14. [Exploring Numbers]

Using the digits 1, 2, 4 and 7 write an even number greater than 7400.

8. [Large Number ×, ÷]

$$\begin{array}{r} \\ 4 \overline{) 484} \end{array}$$

11. [Decimals / Fractions / Percentages]

Write 0.01 as a fraction.

15. [Number Patterns / Equations]

$29 - \text{ } = 16$

16. [Units of Measurement]

Convert to kilograms:

3 t =

17. [Measuring]

What time in the morning is shown on this clock?

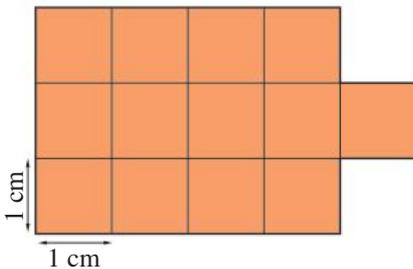


i) 12-hour time format (AM or PM):

ii) 24-hour time format:

18. [Perimeter / Area]

Find the area of this shape.



19. [Shapes]

This parallelogram has:



- A) two acute angles
- B) one line of symmetry
- C) two perpendicular sides
- D) all sides of equal length

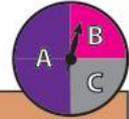
20. [Location / Transformation]

Redraw this shape after doubling its size.



21. [Statistics / Probability]

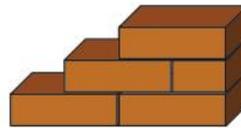
A coin is tossed and a spinner is spun. Complete the table to find the total number of possible outcomes.



		Spinner		
		A	B	C
Coin	Heads	Heads, A		
	Tails			

22. [Problem Solving 1] *

What is the weight of two bricks if four and a half bricks weigh 9 kg?

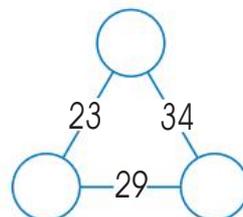


23. [Problem Solving 2] *

Liam and his younger sister Rachael were born on the same day of the year, but 5 years apart. There was a total of 25 candles on their cakes last birthday. How old is Rachael?

24. [Problem Solving 3]

Enter a number in each circle so that the number on each line equals the sum of the numbers at each end.





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	4	1	3	9	10	5	8	2	6	7
+ 6										

2. [- Whole Numbers to 10]

	16	11	13	10	17	18	9	14	15	12
- 8										

3. [× Whole Numbers to 10]

	10	5	4	8	2	9	7	3	6	1
× 2										

4. [÷ Whole Numbers to 10]

	36	30	12	42	18	54	60	24	48	6
÷ 6										

DIVIDING BY 10

For multiples of 10 just remove a zero at the end of the number to divide by 10. This will change the thousands to hundreds, hundreds to tens and tens to units.

Try the following divisions:

- a) $750 \div 10$
- b) $6700 \div 10$

How would you divide numbers like 23000 by 100?

Answer: a) 75, b) 670
Remove two zeros from the end of the number to give 230

5. [Large Number +]

$$\begin{array}{r} 38 \\ 28 \\ + 21 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$2 \overline{) 6842}$$

9. [Decimals]

Write these cents in dollars:

80¢ =

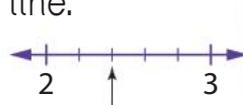
\$

6. [Large Number -]

$$\begin{array}{r} 972 \\ - 406 \\ \hline \end{array}$$

10. [Fractions]

Name the mixed number shown by the arrow on the number line.



7. [Powers of 10 ×, ÷]

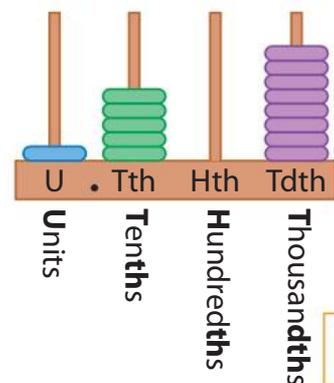
$31500 \div 100 =$

11. [Decimals / Fractions / Percentages]

Write 0.29 as a fraction.

12. [Place Value]

Write the decimal number.



13. [Operations] *

$4 \times 4 \div 2 =$

14. [Exploring Numbers]

Using the digits 5, 6, 7 and 8 write an odd number between 5650 and 5700.

15. [Number Patterns / Equations]

$\square - 11 = 12$

16. [Units of Measurement]

Convert to kilograms:

15 000 g = kg

17. [Measuring]

What time in the afternoon is shown on this clock?



i) 12-hour time format (AM or PM):

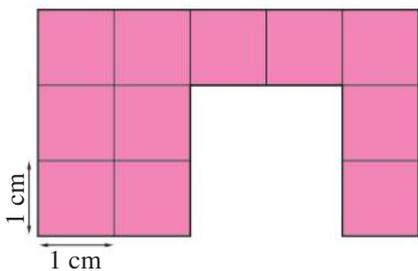
:

ii) 24-hour time format:

:

18. [Perimeter / Area]

Find the area of this shape.



cm²

19. [Shapes]

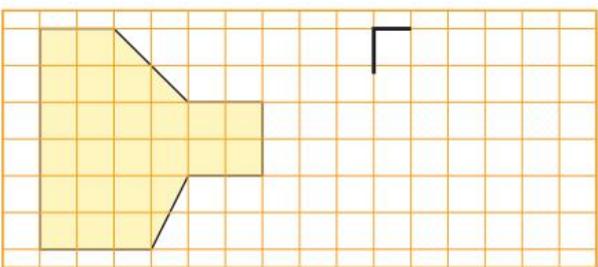
This triangle has:



- A) two parallel sides
- B) one right angle
- C) one line of symmetry
- D) all sides of equal length

20. [Location / Transformation]

Redraw this shape after halving its size.



21. [Statistics / Probability]

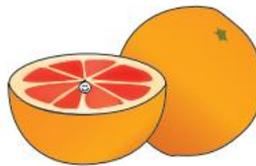
A coin is tossed and a die is rolled. Complete the table to find the total number of possible outcomes.



		Die					
		1	2	3	4	5	6
Coin	Heads	H,1					
	Tails						

22. [Problem Solving 1] *

What is the weight of four grapefruit if one and a half grapefruit of the same size weigh 600 g?



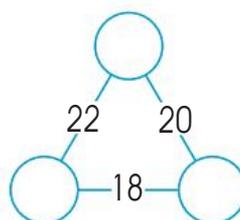
g

23. [Problem Solving 2] *

Ian started with the same number of marbles as his brother Francis. After winning 4 marbles from Francis, Ian realises he now has twice as many marbles as his brother. How many marbles does Ian have now?

24. [Problem Solving 3]

Enter a number in each circle so that the number on each line equals the sum of the numbers at each end.



MATHS MATE



Name:

Class:

Teacher:

Worksheet Results

Term 3

	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Skill Builder links	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Skill Builder links
NUMBER & ALGEBRA	1	1	1	1	1.1,2,3,4	1	1	1	1	1.1,2,3,4
	2	2	2	2	2.1,2,3,4,5	2	2	2	2	2.1,2,3,4,5
	3	3	3	3	3.3,4,5	3	3	3	3	3.1,2,3,4
	4	4	4	4	4.1,2	4	4	4	4	4.1,2
	5	5	5	5	5.2,3	5	5	5	5	5.2,3
	6	6	6	6	6.2	6	6	6	6	6.2,3
	7	7	7	7	7.1,2	7	7	7	7	7.3,4
	8	8	8	8	8.2	8	8	8	8	8.5
	9	9	9	9	9.5	9	9	9	9	9.6,8
	10	10	10	10	10.7	10	10	10	10	10.8,9
	11	11	11	11	11.6	11	11	11	11	11.7
	12	12	12	12	12.1,2	12	12	12	12	12.6,7
	13	13	13	13	13.7	13	13	13	13	13.5
	14	14	14	14	14.6,7	14	14	14	14	14.8
	15	15	15	15	15.5,6	15	15	15	15	15.7
MEASUREMENT & SPACE	16	16	16	16	16.5	16	16	16	16	16.6
	17	17	17	17	17.5	17	17	17	17	17.6
	18	18	18	18	18.4	18	18	18	18	18.4
	19	19	19	19	19.5	19	19	19	19	19.6
	20	20	20	20	20.6	20	20	20	20	20.7,8
S & P	21	21	21	21	21.9	21	21	21	21	21.10
PROBLEM SOLVING	22	22	22	22	Hints & Solutions	22	22	22	22	Hints & Solutions
	23	23	23	23	Hints & Solutions	23	23	23	23	Hints & Solutions
	24	24	24	24	Hints & Solutions	24	24	24	24	Hints & Solutions
Total Correct										





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	8	9	15	11	13	14	12	20	16	7
+ 8										

2. [- Whole Numbers to 10]

	8	21	13	9	14	10	26	12	15	7
- 4										

3. [× Whole Numbers to 10]

	6	2	1	3	10	4	7	8	5	9
× 9										

4. [÷ Whole Numbers to 10]

	70	21	49	7	42	28	63	35	14	56
÷ 7										

5. [Large Number +]

$$\begin{array}{r} 285 \\ + 134 \\ \hline \end{array}$$

8. [Large Number ×, +]

$$\begin{array}{r} 370 \\ \times 4 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

Write the mixed number $5\frac{8}{10}$ as a decimal.

6. [Large Number -]

$$\begin{array}{r} 97 \\ - 39 \\ \hline \end{array}$$

9. [Decimals]

Which of the following are true?

- A) $9 = 9.0$
- B) $15 = 1.5$
- C) $0.3 = 0.300$
- D) $0.5 = 0.05$

and

12. [Place Value]

Which digit in 81.43 is in the same place as the 5 in 2.596?

7. [Powers of 10 ×, +]

$$\begin{array}{r} 38 \\ \times 1000 \\ \hline \end{array}$$

10. [Fractions]

Complete the subtraction.



$$\frac{5}{6} - \frac{1}{6} = \square$$

13. [Operations] *

$$3 \times 4 + 7 =$$

14. [Exploring Numbers]

Complete the next two multiples of 4.

4, 8, 12, ,

15. [Number Patterns / Equations]

1, 2, 4, 8, 16, ,

DID YOU KNOW ...



...If you could drive through space in a car that travels at 100 kilometres per hour, driving non stop, it would take you 5 months to reach the Moon and 170 years to reach the Sun.

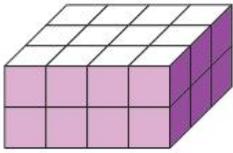
16. [Units of Measurement]

Convert to millilitres:

4 L = mL

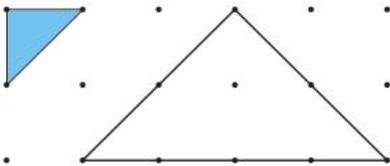
17. [Measuring]

How many cubes were used to make the prism?



18. [Perimeter / Area]

How many coloured triangles are needed to cover the larger triangle?



19. [Shapes]

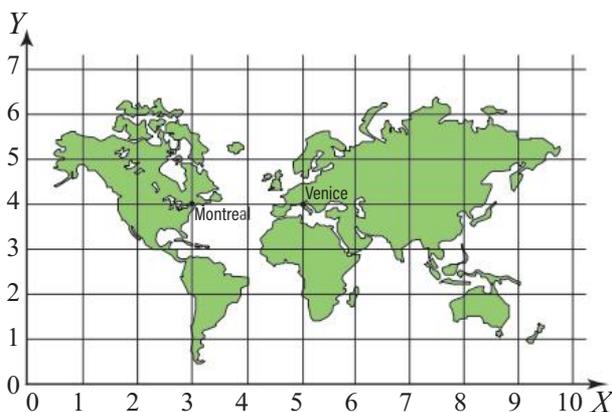
What type of solid is shown below?

- A) triangular prism
- B) cone
- C) cylinder



20. [Location / Transformation]

Montreal (Canada) is located at coordinates (3,4). What are the coordinates of Venice (Italy)?



21. [Statistics / Probability]

Which alternative is closest in meaning to the expression "Sure as the sun will rise"?

- A) most likely to happen
- B) unlikely to happen
- C) certain to happen

22. [Problem Solving 1] *

Rugby players numbered 1 to 12 are standing in a circle in numerical order. They are evenly spaced. What number does the player opposite number 3 wear?

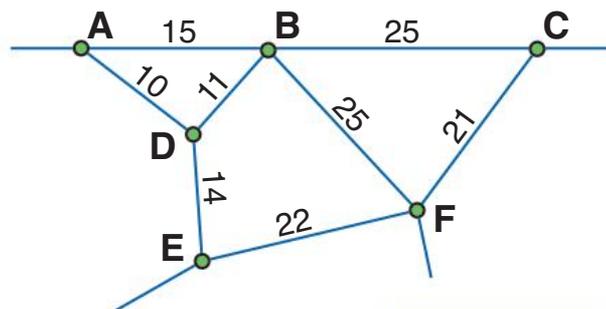
23. [Problem Solving 2]

Fill in the missing digits in the sum.

$$\begin{array}{r} 6 \square \\ + \square 9 \\ \hline 96 \end{array}$$

24. [Problem Solving 3] *

Towns A to F are to be connected by fibre optics cables along existing roads. Calculate the minimum length of cable required. [For example A to D to E to F and D to B to C would work, but is not the shortest. All distances are in kilometres.]


 km



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	6	10	14	18	11	19	13	7	15	12
+ 6										

2. [- Whole Numbers to 10]

	9	16	27	15	10	13	11	18	22	14
- 8										

3. [× Whole Numbers to 10]

	3	7	6	4	9	8	5	2	1	10
× 7										

4. [÷ Whole Numbers to 10]

	70	30	50	10	40	100	80	60	20	90
÷ 10										

5. [Large Number +]

$$\begin{array}{r} 63 \\ + 56 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 430 \\ \times 8 \\ \hline \end{array}$$

6. [Large Number -]

$$\begin{array}{r} 546 \\ - 408 \\ \hline \end{array}$$

9. [Decimals]

Which of the following are true?

- A) $50 = 500$
- B) $0.70 = 0.070$
- C) $2.0 = 2.00$
- D) $0.10 = 0.1$

and

7. [Powers of 10 ×, ÷]

$$\begin{array}{r} 19 \\ \times 1000 \\ \hline \end{array}$$

10. [Fractions]

Shade to complete the sum.



$$\frac{3}{7} + \frac{4}{7} = \square$$

11. [Decimals / Fractions / Percentages]

Write the mixed number $2\frac{1}{10}$ as a decimal.

12. [Place Value]

Which digit in 25.694 is in the same place as the 7 in 0.872?

13. [Operations] *

$$20 \div 2 + 3 =$$

14. [Exploring Numbers]

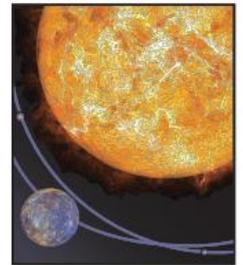
Which number is a factor of 18?

4, 7, 9 or 12

15. [Number Patterns / Equations]

1, 3, 9, 27,

DID YOU KNOW ...



Mercury takes 88 days to go around (orbit) the Sun, giving it the fastest orbit of all the planets. Pluto has the slowest orbit taking 248 years.

How long does it take Earth to orbit the Sun?

Answer: Between 365 and 366 days

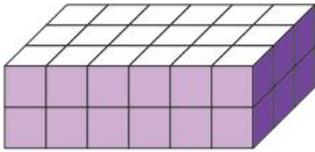
16. [Units of Measurement]

Convert to litres:

9000 mL = L

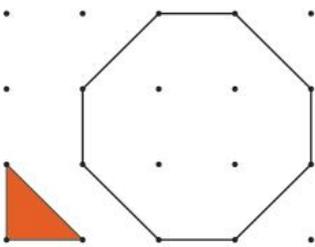
17. [Measuring]

How many cubes were used to make the prism?



18. [Perimeter / Area]

How many coloured triangles are needed to cover the octagon?



19. [Shapes]

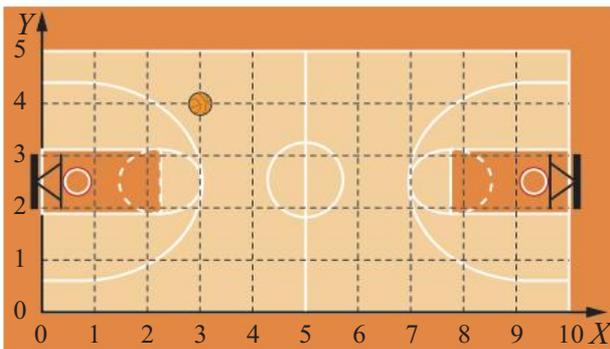
What type of solid is shown below?

- A) cube
- B) square pyramid
- C) rectangular prism



20. [Location / Transformation]

What are the coordinates of the ball on this view of the basketball court?



21. [Statistics / Probability]

Which alternative is closest in meaning to the expression "Once in a blue moon"?

- A) 50 - 50 chance of occurring
- B) unlikely to occur
- C) likely to occur

22. [Problem Solving 1] *

A number of hockey players are standing in a circle. They are evenly spaced and the fourth player is directly opposite the ninth player. How many hockey players are there altogether?

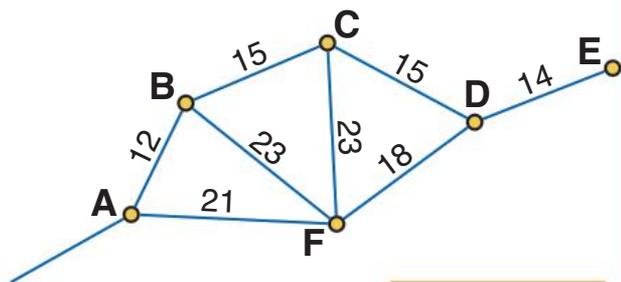
23. [Problem Solving 2]

Fill in the missing digits in the sum.

$$\begin{array}{r}
 16\ \square \\
 555 \\
 + \square 49 \\
 \hline
 9\square 8
 \end{array}$$

24. [Problem Solving 3] *

Towns A to F are to be connected by fibre optics cables along existing roads. Calculate the minimum length of cable required. [For example A to F to D to E and F to B to C would work, but is not the shortest. All distances are in kilometres.]


 km



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	11	9	13	17	15	18	12	16	14	10
+ 4										

2. [- Whole Numbers to 10]

	17	8	15	16	23	24	12	10	19	11
- 7										

3. [× Whole Numbers to 10]

	7	5	10	6	4	2	8	1	9	3
× 6										

4. [÷ Whole Numbers to 10]

	36	63	9	81	90	27	45	72	54	18
÷ 9										

5. [Large Number +]

$$\begin{array}{r} 8042 \\ + 594 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 508 \\ \times 5 \\ \hline \end{array}$$

6. [Large Number -]

$$\begin{array}{r} 771 \\ - 246 \\ \hline \end{array}$$

9. [Decimals]

Which of the following are true?

- A) $4.00 = 40.0$
- B) $0.06 = 0.060$
- C) $8 = 80$
- D) $10 = 10.0$

and

7. [Powers of 10 ×,+]

$$\begin{array}{r} 545 \\ \times 1000 \\ \hline \end{array}$$

10. [Fractions]

Complete the subtraction.



$$\frac{7}{8} - \frac{5}{8} = \square$$

DID YOU KNOW ...



...On the Moon, astronauts weigh only one sixth of their weight on Earth because gravity is weaker on the Moon.

...You could throw a ball six times higher on the Moon. (Would it be harder to catch?)
Try: kids-ask-nasa@quest.nasa.gov

...The Hubble Telescope is 2.4 metres across and it is orbiting Earth.

...Telescopes today could pick up the light of a candle on the Moon. (If you could light one!)

11. [Decimals / Fractions / Percentages]

Write the mixed number

$$4\frac{75}{100} \text{ as a decimal.}$$

12. [Place Value]

What is the value of the digit 5 in the number 34.567?

13. [Operations] *

$$5 + 2 \times 2 =$$

14. [Exploring Numbers]

Which number is **not** a factor of 12?

2, 4, 5 or 12

15. [Number Patterns / Equations]

96, 48, 24, 12,

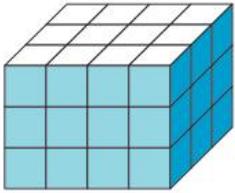
16. [Units of Measurement]

Convert to litres:

12 000 mL = L

17. [Measuring]

Find the volume of the prism.

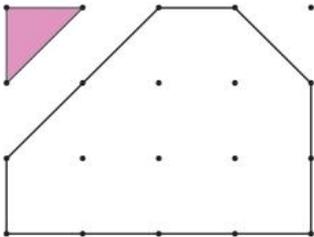


Volume = 1 cm³

cm³

18. [Perimeter / Area]

How many coloured triangles are needed to cover the shape?



19. [Shapes]

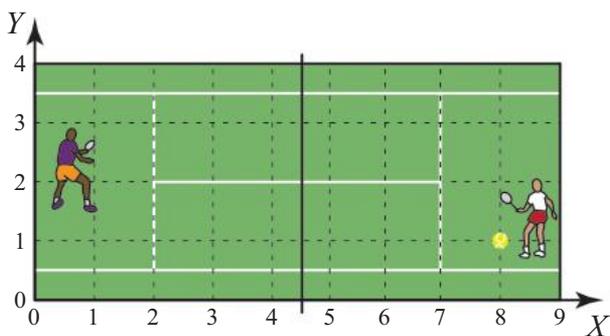
What type of solid is shown below?

- A) sphere
- B) cylinder
- C) cone



20. [Location / Transformation]

What are the coordinates of the tennis ball?



21. [Statistics / Probability]

Which alternative is closest in meaning to the expression "To be in the box seat"?

- A) most likely to succeed
- B) unlikely to succeed
- C) certain to succeed

22. [Problem Solving 1] *

A number of cricketers are standing in a circle. They are evenly spaced and the second cricketer is directly opposite the sixth player. How many cricketers are there altogether?

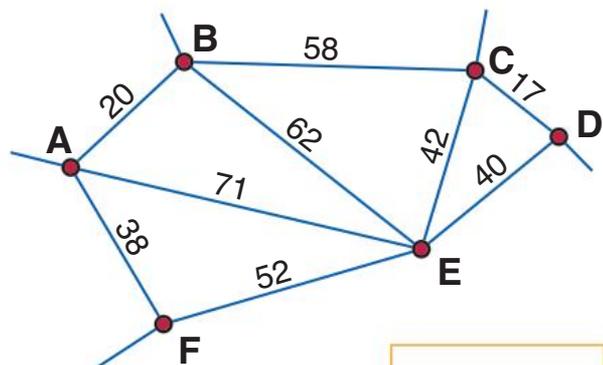
23. [Problem Solving 2]

Fill in the missing digits in the subtraction.

$$\begin{array}{r} 8 \square 6 \\ - \square 7 5 \\ \hline 4 3 \square \end{array}$$

24. [Problem Solving 3] *

Towns A to F are to be connected by fibre optics cables along existing roads. Calculate the minimum length of cable required. [For example A to B to C to D and A to F to E would work, but is not the shortest. All distances are in kilometres.]



km



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	10	17	8	16	14	11	15	13	9	12
+ 3										

2. [- Whole Numbers to 10]

	16	12	9	13	20	15	24	7	28	31
- 6										

3. [× Whole Numbers to 10]

	10	4	6	1	8	9	2	5	7	3
× 5										

4. [÷ Whole Numbers to 10]

	80	48	24	40	72	16	56	32	8	64
÷ 8										

5. [Large Number +]

$$\begin{array}{r} 141 \\ 50 \\ 123 \\ + 31 \\ \hline \end{array}$$

6. [Large Number -]

$$\begin{array}{r} 863 \\ - 437 \\ \hline \end{array}$$

7. [Powers of 10 ×, ÷]

$$\begin{array}{r} 70 \\ \times 1000 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 602 \\ \times 9 \\ \hline \end{array}$$

9. [Decimals]

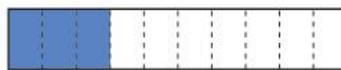
Which of the following are true?

- A) $0.03 = 0.030$
- B) $9.00 = 9.0$
- C) $0.40 = 0.04$
- D) $1.00 = 10.0$

and

10. [Fractions]

Shade to complete the sum.



$$\frac{3}{10} + \frac{6}{10} = \boxed{\quad}$$

11. [Decimals / Fractions / Percentages]

Write the mixed number $1\frac{17}{100}$ as a decimal.

12. [Place Value]

What is the value of the digit 8 in the number 126.78?

13. [Operations] *

$$12 + 6 \div 3 =$$

14. [Exploring Numbers]

Complete the next two multiples of 5.

5, 10, 15, 20,

_____, _____

15. [Number Patterns / Equations]

5000, 1000, 200,

_____, _____

DID YOU KNOW ...



...The International Space Station has been built as it orbited Earth 360 km above the ground.

...It circles the globe every 90 minutes, at a speed of about 28 100 kilometres per hour.

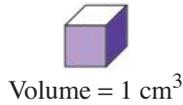
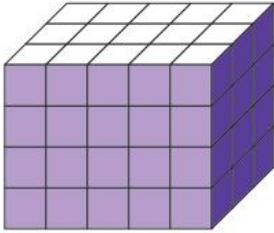
16. [Units of Measurement]

Convert to millilitres:

36 L = mL

17. [Measuring]

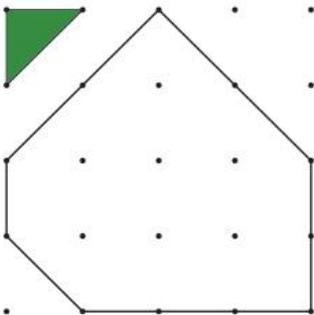
Find the volume of the prism.



cm³

18. [Perimeter / Area]

How many coloured triangles are needed to cover the shape?



19. [Shapes]

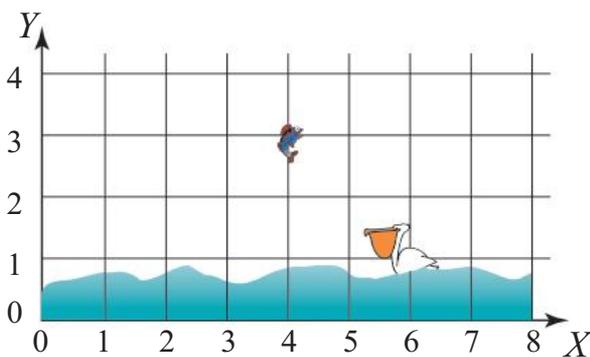
What type of solid is shown below?

- A) cone
- B) sphere
- C) cylinder



20. [Location / Transformation]

What are the coordinates of the pelican and the fish?



pelican = fish =

21. [Statistics / Probability]

Which alternative is closest in meaning to the expression "As scarce as hen's teeth"?

- A) occurs about half the time
- B) not common
- C) extremely rare

22. [Problem Solving 1] *

A number of netball players are standing in a circle. They are evenly spaced and the third player is directly opposite the eleventh player. How many netball players are there altogether?

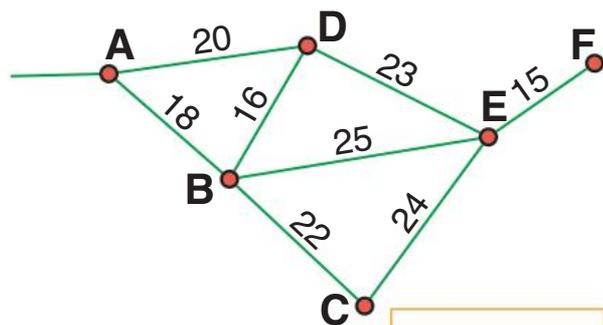
23. [Problem Solving 2]

Fill in the missing digits in the sum.

$$\begin{array}{r}
 63\ \square \\
 158 \\
 + 1\square 8 \\
 \hline
 \square 24
 \end{array}$$

24. [Problem Solving 3] *

Towns A to F are to be connected by fibre optics cables along existing roads. Calculate the minimum length of cable required. [For example A to D to E to F and E to B to C would work, but is not the shortest. All distances are in kilometres.]



km



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	17	16	13	10	8	15	14	12	11	9
+ 3										

2. [- Whole Numbers to 10]

	17	15	13	11	20	14	8	12	29	16
- 4										

3. [× Whole Numbers to 10]

	4	5	2	9	7	3	8	1	10	6
× 7										

4. [+ Whole Numbers to 10]

	48	18	42	36	30	60	24	6	12	54
÷ 6										

DID YOU KNOW ...

...Bananas are the world's most popular fruit. Approximately 40 million tonnes are eaten each year.



...57.5 million tonnes of tomatoes are eaten each year and they are therefore the most popular vegetable. However a tomato is actually a seeded fruit.

So what was that about the bananas?

5. [Large Number +]

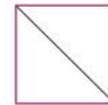
$$\begin{array}{r} 62 \\ 41 \\ + 24 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \square \\ 7 \overline{) 147} \end{array}$$

11. [Decimals / Fractions / Percentages]

Shade 50% or $\frac{1}{2}$ of this square.



6. [Large Number -]

$$\begin{array}{r} 500 \\ - 65 \\ \hline \end{array}$$

9. [Decimals]

$$\$5 + \$2.75 =$$

\$

12. [Place Value]

Which number is greater?

3.87 or 3.087

7. [Powers of 10 ×, ÷]

$$6000 \div 1000 =$$

10. [Fractions]

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

Use $<$, $=$ or $>$ to make this statement true.

$$\frac{4}{6} \square \frac{3}{6}$$

13. [Operations] *

$$8 + 4 - 5 - 2 =$$

14. [Exploring Numbers]

Which number is a prime?

2, 8 or 10

15. [Number Patterns / Equations]

$$10 \times \square = 120$$

16. [Units of Measurement]

Convert to seconds:

5 min = s

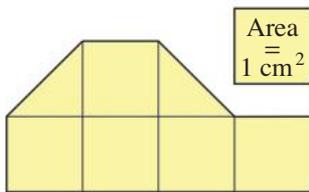
17. [Measuring]

It is 10:30 pm. What was the time 2 hours and 15 minutes before this?

:

18. [Perimeter / Area]

Find the area of this shape.

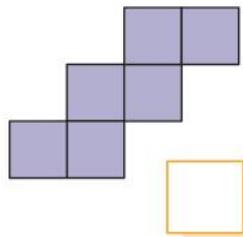


cm²

19. [Shapes]

Which shape can this net be used to make?

- A) triangular prism
- B) rectangular prism
- C) cube



20. [Location / Transformation]

From Fort Collins you travel south until you reach the first city. From there you travel east. Which town would you pass through?



21. [Statistics / Probability]

A single die is thrown. What is the probability that it will roll a 5?

- A) one out of six
- B) one out of five
- C) five out of six



22. [Problem Solving 1]

Complete the addition table.

+	4	5	
	6		8
		8	
4			

23. [Problem Solving 2] *

An archaeologist found some ancient numbers written as follows:

for 72
 for 48
 and for 9.

What did equal?

24. [Problem Solving 3] *

In the addition problem shown, the letters A, B and C stand for different digits. If D = 6 what number does ABC represent?

$$\begin{array}{r} A B C \\ + A B C \\ \hline C D D \end{array}$$

ABC =



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	13	14	18	11	15	9	10	12	17	16
+ 8										

2. [- Whole Numbers to 10]

	17	22	13	24	15	10	28	16	21	19
- 9										

3. [× Whole Numbers to 10]

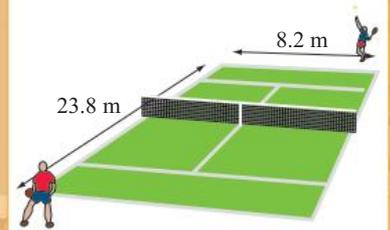
	8	6	5	3	4	1	2	10	9	7
× 5										

4. [÷ Whole Numbers to 10]

	28	7	63	35	49	14	56	21	42	70
÷ 7										

DID YOU KNOW ...

...If you spread out the lungs of the players in a singles tennis match, the surface area of their lungs is similar to that of the tennis court.



5. [Large Number +]

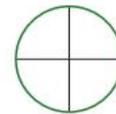
$$\begin{array}{r} 4462 \\ + 1285 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \square \\ 4 \overline{) 368} \end{array}$$

11. [Decimals / Fractions / Percentages]

Shade 25% or $\frac{1}{4}$ of this circle.



6. [Large Number -]

$$\begin{array}{r} 900 \\ - 23 \\ \hline \end{array}$$

9. [Decimals]

$$\$4.50 + \$2.40 =$$

\$

12. [Place Value]

Which number is greater?

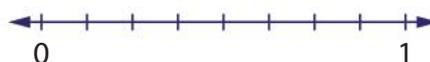
0.707 or 0.71

7. [Powers of 10 ×, ÷]

$$3000 \div 1000 =$$

10. [Fractions]

Show with arrows the fractions $\frac{3}{8}$ and $\frac{7}{8}$ on the number line. Which fraction is greater?



13. [Operations] *

$$7 - 2 + 4 + 2 =$$

14. [Exploring Numbers]

Which of the following is a composite number?

3, 5, 7 or 9

15. [Number Patterns / Equations]

$$\square \times 4 = 80$$



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	11	13	19	16	17	10	15	14	12	18
+ 9										

2. [- Whole Numbers to 10]

	14	25	17	26	11	29	18	10	23	12
- 5										

3. [× Whole Numbers to 10]

	5	9	6	7	3	1	10	4	2	8
× 6										

4. [÷ Whole Numbers to 10]

	12	32	4	16	24	28	8	40	20	36
÷ 4										

5. [Large Number +]

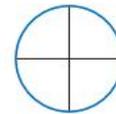
$$\begin{array}{r} 1325 \\ 153 \\ + 3370 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \square \\ 8 \overline{) 240} \end{array}$$

11. [Decimals / Fractions / Percentages]

Shade 75% or $\frac{3}{4}$ of this circle.



6. [Large Number -]

$$\begin{array}{r} 800 \\ - 49 \\ \hline \end{array}$$

9. [Decimals]

$$\begin{array}{r} \$3.50 \\ + \$1.70 \\ \hline \end{array}$$

12. [Place Value]

Place in order from largest to smallest:

2.3, 3.1, 1.3, 3.2, 2.1, 3

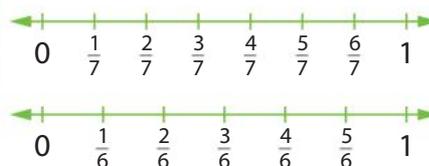
13. [Operations] *

$$9 - 3 + 2 - 3 =$$

7. [Powers of 10 ×, ÷]

$$87000 \div 1000 =$$

10. [Fractions]



Use <, = or > to make this statement true.

$$\frac{5}{7} \square \frac{5}{6}$$

14. [Exploring Numbers]

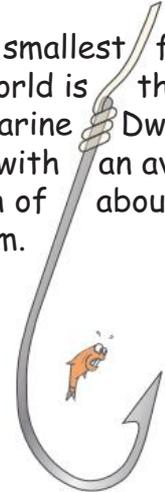
Which number is **not** a prime?
2, 3, 7 or 9

15. [Number Patterns / Equations]

$$7 \times \square = 210$$

DID YOU KNOW ...

...The smallest fish in the world is the Marine Dwarf Goby with an average length of 8.6 mm.



However, the largest fish is the Whale Shark and its length has been recorded at 12.65 m.

16. [Units of Measurement]

Convert to minutes:

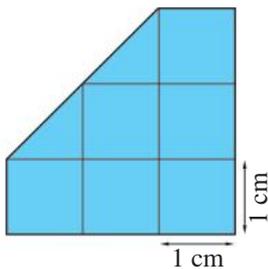
240 s =

17. [Measuring]

It is 2:00 am. In another 30 hours what time will it be?

18. [Perimeter / Area]

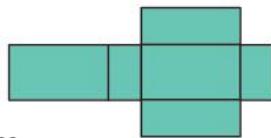
Find the area of this shape.



19. [Shapes]

Which shape can this net be used to make?

- A) square prism
- B) cube
- C) rectangular prism



20. [Location / Transformation]

From Winnipeg you move two units up on the grid and five units left. Which city are you in and what are the coordinates of this city?



city:

21. [Statistics / Probability]

A single die is rolled. What is the probability that it will land on a number greater than 4?

- A) one out of six
- B) two out of six
- C) two out of four



22. [Problem Solving 1]

Complete the addition table.

+	5	6	
	14		16
7			
		11	

23. [Problem Solving 2] *

An archaeologist found some ancient numbers written as follows:

for 202

for 130

and for 23.

What did equal?

24. [Problem Solving 3] *

In the addition problem shown, the letters A, B, C and D stand for different digits. If $A < B < C < D$ what number does ABCD represent?

$$\begin{array}{r} A \ B \ C \ D \\ B \ C \ D \\ + \quad \quad C \ D \\ \hline 2 \ 9 \ 6 \ 8 \end{array}$$



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	19	11	15	10	14	12	17	13	6	18
+ 10										

2. [- Whole Numbers to 10]

	9	30	17	16	21	15	22	4	18	23
- 3										

3. [× Whole Numbers to 10]

	1	8	5	10	2	9	4	6	7	3
× 4										

4. [÷ Whole Numbers to 10]

	63	90	36	81	27	45	18	54	9	72
÷ 9										

5. [Large Number +]

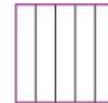
$$\begin{array}{r} 1033 \\ 7041 \\ + 1265 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} \\ 5 \overline{) 3500} \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

Shade 20% or $\frac{1}{5}$ of this square.



6. [Large Number -]

$$\begin{array}{r} 700 \\ - 87 \\ \hline \end{array}$$

9. [Decimals]

$$\begin{array}{r} \$2.45 \\ + \$3.75 \\ \hline \end{array}$$

12. [Place Value]

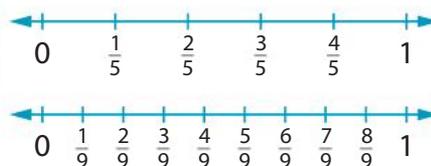
Place in order from smallest to largest:

5.7, 7.05, 5.07, 7, 7.5

7. [Powers of 10 ×, ÷]

$$26000 \div 1000 =$$

10. [Fractions]



Use <, = or > to make this statement true.

$$\frac{4}{5} \square \frac{4}{9}$$

13. [Operations] *

$$8 - 3 - 2 + 5 =$$

14. [Exploring Numbers]

List the composite numbers between 5 and 10.

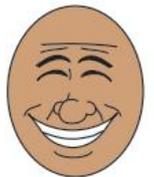
15. [Number Patterns / Equations]

$$\square \times 60 = 300$$

DID YOU KNOW ...

... It takes more muscles to smile than to frown.

43 muscles are used for smiling.



17 muscles are used for frowning.



16. [Units of Measurement]

Convert to hours:

$$180 \text{ min} = \boxed{} \text{ h}$$

17. [Measuring]

The ballet concert started at 19:15.

It lasted 3 hours and 5 minutes.

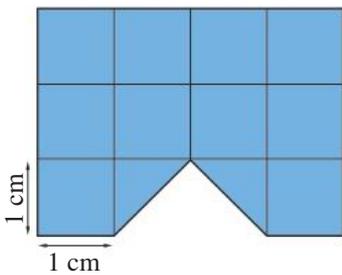
When did it finish?

[Use the 24-hour clock.]

 :

18. [Perimeter / Area]

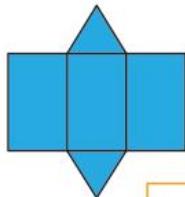
Find the area of this shape.


 cm^2

19. [Shapes]

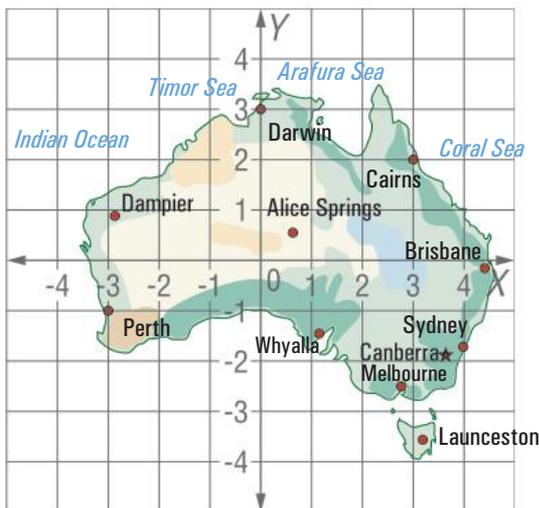
Which shape can this net be used to make?

- A) triangular prism
- B) square prism
- C) triangular pyramid



20. [Location / Transformation]

From Cairns you move three units down the grid and six units left. Which city are you in and what are the coordinates of this city?

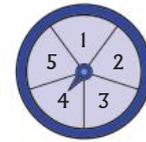


city: (,)

21. [Statistics / Probability]

A spinner is spun. What is the probability that it will stop on 4?

- A) one out of five
- B) one out of four
- C) four out of five



22. [Problem Solving 1]

Complete the addition table.

+	7	1	
	13		
1			7
			13

23. [Problem Solving 2] *

An archaeologist found some ancient numbers written as follows:

$\alpha\alpha||$ for 52

$\alpha\uparrow\uparrow\uparrow$ for 40

and $\uparrow\uparrow|||$ for 13.

What did $\alpha\uparrow|||$ equal?

24. [Problem Solving 3] *

In the addition problem shown, the letters A, B, C, D and E stand for different digits. If A = 7 what number does ABCDE represent?

$$\begin{array}{r} A \ B \ C \ D \ E \\ \ B \ C \ D \ E \\ + \ C \ D \ E \\ \hline 7 \ 4 \ 9 \ 1 \ 5 \end{array}$$

 ABCDE =

MATHS MATE



Name:

Class:

Teacher:

Worksheet Results

Term 4

	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Skill Builder links	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Skill Builder links	
NUMBER & ALGEBRA	1. [+ Whole Numbers to 10]	1	1	1	1	1.1,2,3,4	1	1	1	1	1.1,2,3,4
	2. [- Whole Numbers to 10]	2	2	2	2	2.1,2,3,4,5	2	2	2	2	2.1,2,3,4,5
	3. [× Whole Numbers to 10]	3	3	3	3	3.3,4,5	3	3	3	3	3.1,2,3,4
	4. [÷ Whole Numbers to 10]	4	4	4	4	4.1,2	4	4	4	4	4.1,2
	5. [Large Number +]	5	5	5	5	5.2,3	5	5	5	5	5.2,3
	6. [Large Number -]	6	6	6	6	6.2	6	6	6	6	6.2
	7. [Powers of 10 ×, ÷]	7	7	7	7	7.1,2	7	7	7	7	7.3,4
	8. [Large Number ×, ÷]	8	8	8	8	8.2	8	8	8	8	8.3
	9. [Decimals]	9	9	9	9	9.7	9	9	9	9	9.8,9
	10. [Fractions]	10	10	10	10	10.10	10	10	10	10	10.12,13
	11. [Dec. / Frac. / Percentages]	11	11	11	11	11.8	11	11	11	11	11.9,10
	12. [Place Value]	12	12	12	12	12.8,9	12	12	12	12	12.10
	13. [Operations]	13	13	13	13	13.8	13	13	13	13	13.8
	14. [Exploring Numbers]	14	14	14	14	14.9	14	14	14	14	14.7
	15. [Number Patterns / Equations]	15	15	15	15	15.8	15	15	15	15	15.9
MEASUREMENT & SPACE	16. [Units of Measurement]	16	16	16	16	16.3,4,5	16	16	16	16	16.7
	17. [Measuring]	17	17	17	17	17.7,8	17	17	17	17	17.9
	18. [Perimeter / Area]	18	18	18	18	18.3	18	18	18	18	18.2,5
	19. [Shapes]	19	19	19	19	19.7	19	19	19	19	19.8
	20. [Location / Transformation]	20	20	20	20	20.5	20	20	20	20	20.9
S & P	21. [Statistics / Probability]	21	21	21	21	21.11	21	21	21	21	21.12
PROBLEM SOLVING	22. [Problem Solving 1]	22	22	22	22	Hints & Solutions	22	22	22	22	Hints & Solutions
	23. [Problem Solving 2]	23	23	23	23	Hints & Solutions	23	23	23	23	Hints & Solutions
	24. [Problem Solving 3]	24	24	24	24	Hints & Solutions	24	24	24	24	Hints & Solutions
Total Correct											





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	9	15	8	11	23	4	20	22	16	17
+ 10										

2. [- Whole Numbers to 10]

	16	21	13	10	17	28	19	14	25	12
- 5										

3. [× Whole Numbers to 10]

	7	8	2	4	10	1	3	9	5	6
× 8										

4. [÷ Whole Numbers to 10]

	36	18	60	12	6	30	42	48	24	54
÷ 6										

COUNT TO TEN

English Italian German



One	Uno	Eins
Two	Due	Zwei
Three	Tre	Drei
Four	Quattro	Vier
Five	Cinque	Fünf
Six	Sei	Sechs
Seven	Sette	Sieben
Eight	Otto	Acht
Nine	Nove	Neun
Ten	Dieci	Zehn

5. [Large Number +]

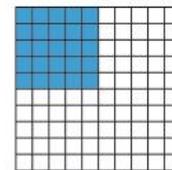
$$\begin{array}{r} 66 \\ + 445 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 153 \\ \times 6 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

What percentage of the whole square is shaded?



%

6. [Large Number -]

$$\begin{array}{r} 364 \\ - 68 \\ \hline \end{array}$$

9. [Decimals]

How much change will you receive from \$2.00 if you spend \$0.65?

\$

12. [Place Value]

Round 286 to the nearest hundred.

7. [Powers of 10 ×,+]

$$\begin{array}{r} 280 \\ \times 10 \\ \hline \end{array}$$

10. [Fractions]

Shade the bars to complete the equivalent fractions.



$$\frac{2}{3} = \frac{\square}{6}$$

13. [Operations] *

$$7 - (4 + 3) =$$

14. [Exploring Numbers]

Complete the missing factor in this factorisation of 12:

$$12 = 3 \times \square$$

15. [Number Patterns / Equations]

$$48 \div \square = 6$$

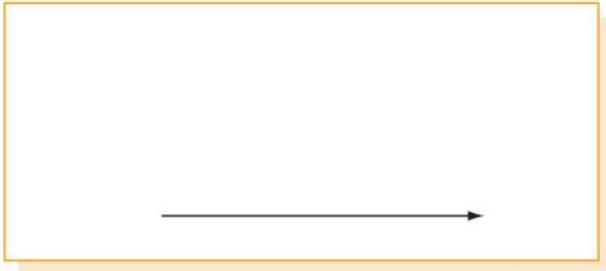
16. [Units of Measurement] *

Which is greater?

49 kg or 5000 g

17. [Measuring] Ⓢ

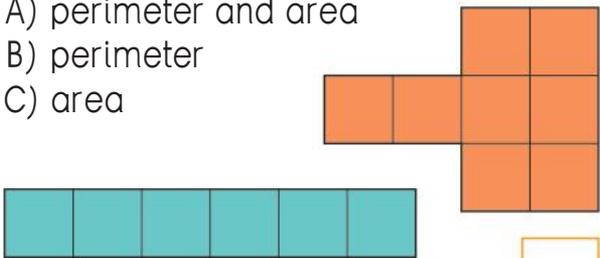
Draw an acute angle using this line.



18. [Perimeter / Area]

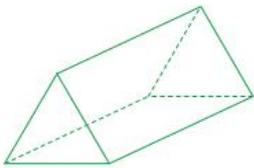
The shapes below have the same:

- A) perimeter and area
- B) perimeter
- C) area



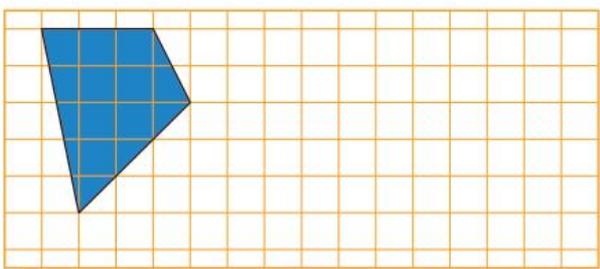
19. [Shapes]

How many faces does a triangular prism have?



20. [Location / Transformation]

Redraw this shape after translating it 7 units to the right and 1 unit down.



21. [Statistics / Probability]

A jar contains 8 yellow marbles and 11 green marbles. What is the chance that the first marble drawn will be black?

- A) impossible
- B) unlikely
- C) likely
- D) certain



22. [Problem Solving 1] *

A family of six (two adults and four children) are planning their visit to a theme park. How much do they save if they buy their one-day tickets online?

Theme park • One-day tickets

Ticket Type	Price
online price adult	\$85
online price child/pensioner	\$80
gate price adult	\$95
gate price child/pensioner	\$95

23. [Problem Solving 2] *

I think of a number, subtract 5 and then divide by 3. If the result is 6, what was the original number?

24. [Problem Solving 3] *

Deduce the 3-digit secret number. [A 'cow' means a number is correct in value but is in the wrong position. A 'bull' shows that a number is both correct in value and is in the right position. i.e. 2 cows and 1 bull would indicate that all three numbers were correct but two were in the wrong positions.]

Guess	Secret Number	Cows	Bulls
1st	1 2 3	1	-
2nd	1 2 4	-	-
3rd	1 5 6	-	2



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	6	20	19	28	11	14	13	27	25	12
+ 7										

2. [- Whole Numbers to 10]

	13	22	16	20	15	17	28	14	21	19
- 9										

3. [× Whole Numbers to 10]

	10	6	4	5	2	1	7	3	8	9
× 10										

4. [÷ Whole Numbers to 10]

	32	40	12	8	36	20	28	4	24	16
÷ 4										

5. [Large Number +]

$$\begin{array}{r} 1278 \\ + 344 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 176 \\ \times 9 \\ \hline \end{array}$$

6. [Large Number -]

$$\begin{array}{r} 625 \\ - 339 \\ \hline \end{array}$$

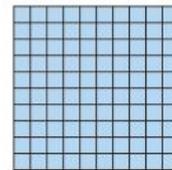
9. [Decimals]

How much change will you receive from \$5.00 if you spend \$3.40?

\$

11. [Decimals / Fractions / Percentages]

What percentage of the whole square is shaded?



%

12. [Place Value]

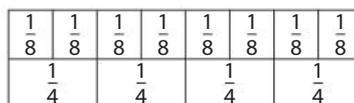
Round 4948 to the nearest ten.

7. [Powers of 10 ×,+]

$$\begin{array}{r} 60 \\ \times 100 \\ \hline \end{array}$$

10. [Fractions]

Shade the bars to complete the equivalent fractions.



$$\frac{6}{8} = \frac{\square}{4}$$

13. [Operations] *

$$9 - (6 - 2) =$$

14. [Exploring Numbers]

Complete the missing factor in this factorisation of 30:

$$30 = 2 \times \square \times 5$$

15. [Number Patterns / Equations]

$$72 \div \square = 12$$

COUNT TO TEN

Chinese

Japanese



Arabic Numbers



yī	1	ichi
èr	2	ni
sān	3	san
sì	4	shi
wǔ	5	go
liù	6	roku
qī	7	shichi
bā	8	hachi
jiǔ	9	kyū
shí	10	jū

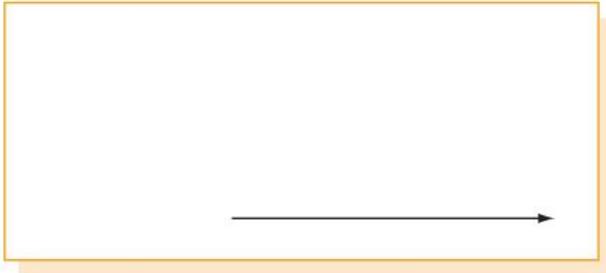
16. [Units of Measurement] *

Which is greater?

50 000 mL or 6 L

17. [Measuring]

Draw an obtuse angle using this line.



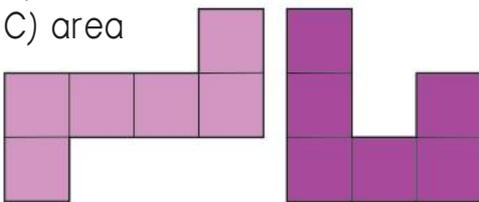
18. [Perimeter / Area]

The shapes below have the same:

A) perimeter and area

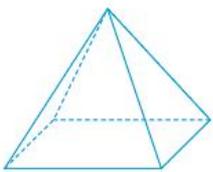
B) perimeter

C) area



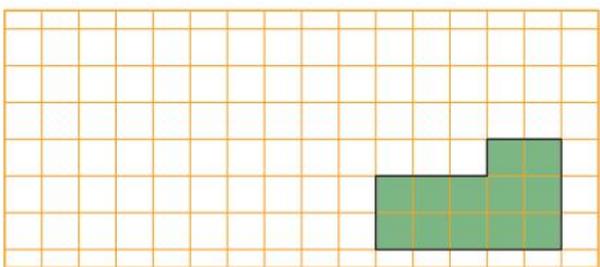
19. [Shapes]

How many edges does a rectangular pyramid have?



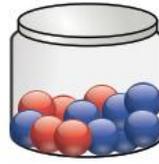
20. [Location / Transformation]

Redraw this shape after translating it 6 units to the left and 3 units up.



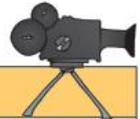
21. [Statistics / Probability]

A jar contains 7 blue marbles and 5 red marbles. One marble is to be taken from the jar without looking. Which colour is more likely to be drawn out, blue or red?



22. [Problem Solving 1] *

Miranda and Gina take \$50 to the movies. They buy their tickets, two medium soft drinks and one large popcorn to share. How much change do they receive?



Today at the movies		
Movie ticket	all ages	\$13.50
Popcorn	small	\$3.50
	medium	\$5.00
	large	\$6.50
Soft drinks	small	\$4.00
	medium	\$5.00
	large	\$6.00

23. [Problem Solving 2] *

I think of a number, add 9 and then multiply by 3. If the result is 30, what was the original number?

24. [Problem Solving 3] *

Deduce the 3-digit secret number.

[A 'cow' means a number is correct in value but is in the wrong position.

A 'bull' shows that a number is both correct in value and is in the right position.

i.e. 2 cows and 1 bull would indicate that all three numbers were correct but two were in the wrong positions.]

Guess	Secret Number	Cows	Bulls
1st	4 5 6	-	2
2nd	9 5 7	-	-
3rd	6 7 8	2	-



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	14	9	13	27	15	18	22	16	21	10
+ 9										

2. [- Whole Numbers to 10]

	21	15	9	24	27	6	13	22	10	28
- 4										

3. [× Whole Numbers to 10]

	2	5	10	9	7	4	1	6	3	8
× 7										

4. [+ Whole Numbers to 10]

	24	15	3	21	9	30	27	12	18	6
÷ 3										

COUNT TO TEN

Russian	Roman Numbers	Polish
Odin	I	Jeden
Dwa	II	Dwa
Try	III	Trzy
Chetyre	IV	Cztery
Piat	V	Piec
Shest	VI	Szesc
Sem	VII	Siedem
Vosem	VIII	Osiem
Deviat	IX	Dziewiec
Desiat	X	Dziesiec

5. [Large Number +]

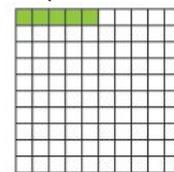
$$\begin{array}{r} 3215 \\ 1085 \\ + 2415 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 134 \\ \times 7 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

What percentage of the whole square is shaded?



%

6. [Large Number -]

$$\begin{array}{r} 465 \\ - 278 \\ \hline \end{array}$$

9. [Decimals]

How much change will you receive from \$5.00 if you spend \$3.75?

\$

12. [Place Value]

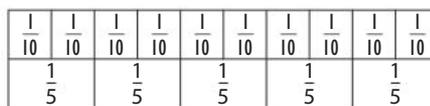
Round 7.4 to the nearest whole number.

7. [Powers of 10 ×,+]

$$\begin{array}{r} 430 \\ \times 100 \\ \hline \end{array}$$

10. [Fractions]

Shade the bars to complete the equivalent fractions.



$$\frac{8}{10} = \frac{\square}{5}$$

13. [Operations] *

$$10 - (4 - 3) =$$

14. [Exploring Numbers]

Complete the missing factor in this factorisation of 40:

$$40 = 2 \times 4 \times \square$$

15. [Number Patterns / Equations]

$$\square \div 5 = 8$$

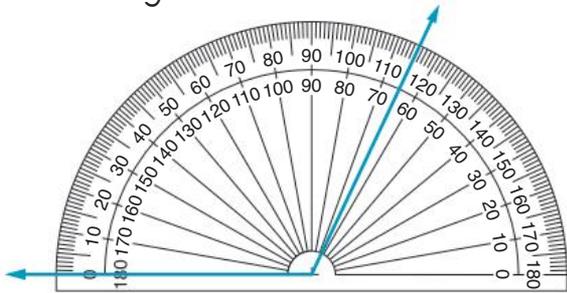
16. [Units of Measurement] *

Which is greater?

13 cm or 1300 mm

17. [Measuring]

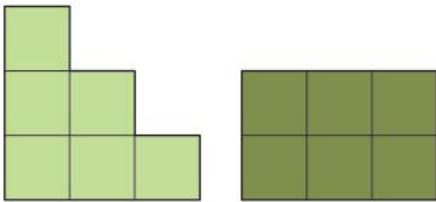
Using the protractor measure the size of the angle shown.



18. [Perimeter / Area]

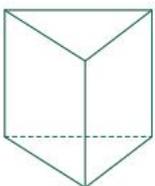
The shapes below have the same:

- A) perimeter and area
- B) perimeter
- C) area



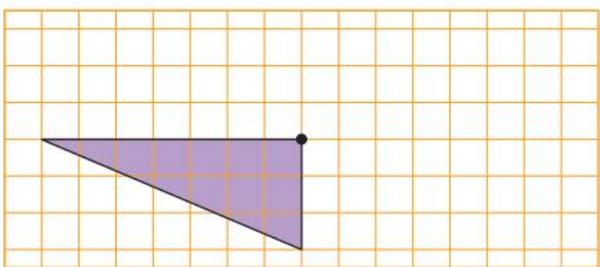
19. [Shapes]

How many edges does a triangular prism have?



20. [Location / Transformation]

Redraw this shape after rotating it 180° around the marked point.



21. [Statistics / Probability]

A jar contains 3 gold marbles and 5 purple marbles. One marble is to be taken from the jar without looking. Which colour is less likely to be drawn out, gold or purple?



22. [Problem Solving 1] *

How much is saved by buying a Fun Park family ticket rather than 2 adult and 2 child tickets?

Gondola + 3 Luge Rides Package

Ticket Type	Price
Adult (15+ years)	\$53
Child (5 - 14 years)	\$43
Family (2A + 2C)	\$143

23. [Problem Solving 2] *

I think of a number, double it and then add 4. If the result is 20, what was the original number?

24. [Problem Solving 3] *

Deduce the 3-digit secret number. [A 'cow' means a number is correct in value but is in the wrong position. A 'bull' shows that a number is both correct in value and is in the right position. i.e. 2 cows and 1 bull would indicate that all three numbers were correct but two were in the wrong positions.]

Guess	Secret Number	Cows	Bulls
1st	1 7 8	-	-
2nd	8 3 1	1	-
3rd	8 5 3	2	-
4th	2 9 7	1	-



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	9	14	8	10	27	21	15	12	23	26
+ 5										

2. [- Whole Numbers to 10]

	35	12	13	27	11	10	9	14	18	6
- 3										

3. [× Whole Numbers to 10]

	9	1	8	6	5	2	4	7	3	10
× 9										

4. [÷ Whole Numbers to 10]

	80	32	56	8	40	72	24	16	64	48
÷ 8										

COUNT TO TEN

French Spanish Greek



Un	Uno	Ena
Deux	Dos	Dio
Trois	Tres	Tria
Quatre	Cuatro	Tessera
Cinq	Cinco	Pende
Six	Seis	Exi
Sept	Siete	Epta
Huit	Ocho	Okto
Neuf	Nueve	Enea
Dix	Diez	Deka

5. [Large Number +]

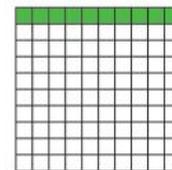
$$\begin{array}{r} 6519 \\ 144 \\ + 2285 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 135 \\ \times 8 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]

What percentage of the whole square is shaded?



%

6. [Large Number -]

$$\begin{array}{r} 736 \\ - 458 \\ \hline \end{array}$$

9. [Decimals]

How much change will you receive from \$10.00 if you spend \$1.05?

\$

12. [Place Value]

Round 5.5 to the nearest whole number.

7. [Powers of 10 ×, ÷]

$$\begin{array}{r} 50 \\ \times 1000 \\ \hline \end{array}$$

10. [Fractions]

Shade the bars to complete the equivalent fractions.



$$\frac{2}{4} = \frac{\square}{6}$$

13. [Operations] *

$$7 - (4 + 2) =$$

14. [Exploring Numbers]

Complete the missing factor in this factorisation of 48:

$$48 = 2 \times \square \times 8$$

15. [Number Patterns / Equations]

$$\square \div 9 = 7$$

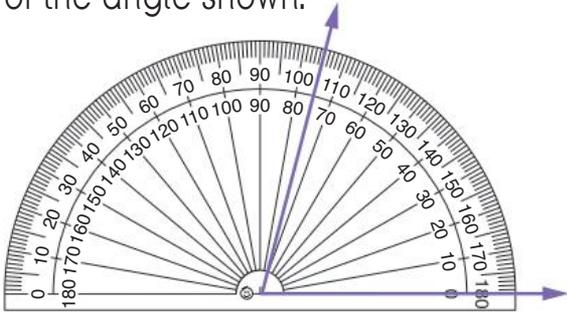
16. [Units of Measurement] *

Which is greater?

7 t or 8000 kg

17. [Measuring]

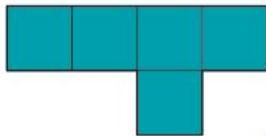
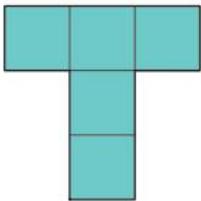
Using the protractor measure the size of the angle shown.



18. [Perimeter / Area]

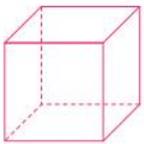
The shapes below have the same:

- A) perimeter and area
- B) perimeter
- C) area



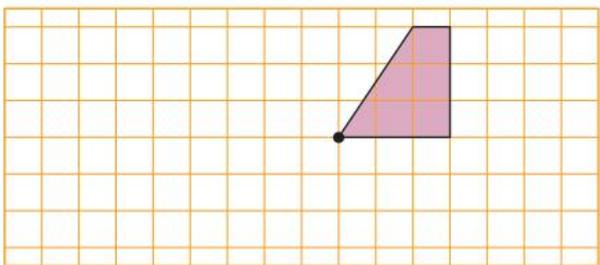
19. [Shapes]

How many vertices does a cube have?



20. [Location / Transformation]

Redraw this shape after rotating it 90° clockwise around the marked point.



21. [Statistics / Probability]

A jar contains 5 yellow marbles and 15 green marbles. What is the chance that the first marble drawn will be yellow?

- A) impossible
- B) unlikely
- C) likely
- D) certain



22. [Problem Solving 1] *

The Murphys have three children, aged 5, 8 and 11. How much does this family save if they pay as a family and one extra child, rather than individuals?

ADVENTURE PARK

Ticket Type	Online Price
Adult (16+ years)	\$26.00
Child (4 - 15 years. Under 3s go free!)	\$15.40
Concession (Student or Pensioner)	\$25.00
Family of 4 (Maximum 2 adults)	\$69.00

23. [Problem Solving 2] *

I think of a number, double it and then add 8. If the result is 40, what was the original number?

24. [Problem Solving 3] *

Deduce the 3-digit secret number.

[A 'cow' means a number is correct in value but is in the wrong position.

A 'bull' shows that a number is both correct in value and is in the right position.

i.e. 2 cows and 1 bull would indicate that all three numbers were correct but two were in the wrong positions.]

Guess	Secret Number	Cows	Bulls
1st	7 9 4	-	1
2nd	6 8 1	1	-
3rd	5 7 9	-	1
4th	4 5 6	3	-



Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	27	16	29	20	18	15	21	24	12	23
+ 4										

2. [- Whole Numbers to 10]

	11	8	24	13	12	30	16	17	15	29
- 7										

3. [× Whole Numbers to 10]

	6	10	1	5	8	3	9	7	4	2
× 8										

4. [÷ Whole Numbers to 10]

	24	6	30	12	27	21	9	18	15	3
÷ 3										

5. [Large Number +]

$$\begin{array}{r} 3489 \\ + 3235 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 34 \\ \times 52 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]
Write 25% in decimal form.

6. [Large Number -]

$$\begin{array}{r} 351 \\ - 76 \\ \hline \end{array}$$

9. [Decimals]

$$\begin{array}{r} 8.41 \\ + 0.6 \\ \hline \end{array}$$

12. [Place Value] *
Estimate the sum of 21 and 77 by rounding to the nearest ten before adding.

13. [Operations] *
(5 + 2) × 3 =

14. [Exploring Numbers] *
Which of the numbers 2, 3, 4 and 6 are factors of 438?

7. [Powers of 10 ×, ÷]

$700 \div 10 =$

10. [Fractions]

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

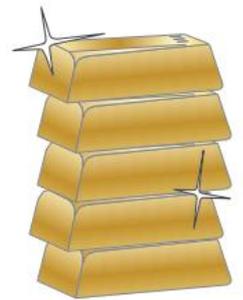
15. [Number Patterns / Equations]

1, 2, 4, 7, 11,

_, _

GOLD

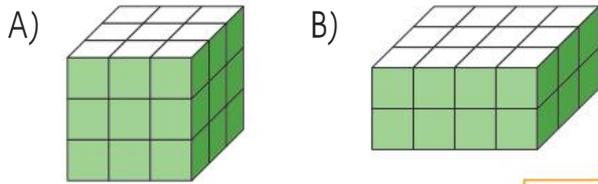
GOLD is the most malleable and ductile of metals. A small piece of gold the size of a pinhead and weighing about 1 gram can be drawn out into a continuous wire thread about 2000 metres in length!



16. [Units of Measurement] *
Circle the longest time.

3 h 3000 s 300 min

17. [Measuring]
Which prism has the greater volume?

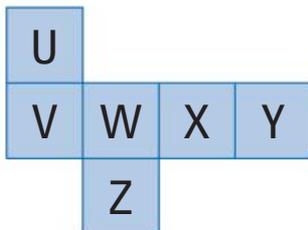


18. [Perimeter / Area]
Using a ruler, find the perimeter of the shape in centimetres.

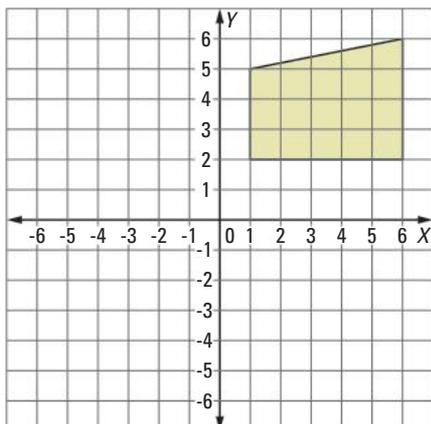


cm

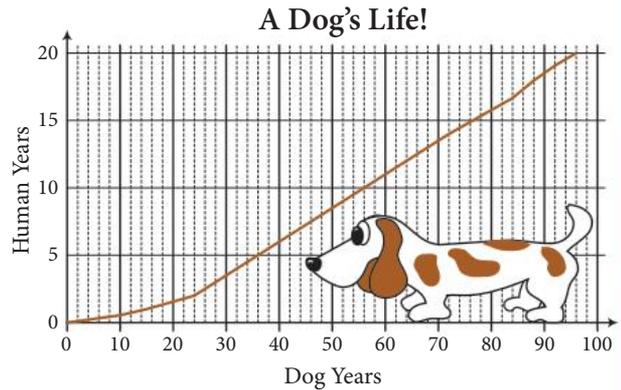
19. [Shapes]
This net forms a cube when folded.
Which letter is on the face opposite to letter Y?



20. [Location / Transformation]
Redraw this shape after reflecting it in the X-axis.

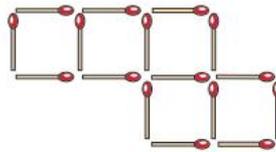


21. [Statistics / Probability]
How old, in dog years, is your dog after 5 human years?



years

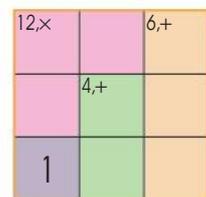
22. [Problem Solving 1]
Move 2 matches to leave 4 squares.



23. [Problem Solving 2] *
Which bag of almonds is the best value?

- A) 600 g for \$36
B) 400 g for \$22

24. [Problem Solving 3]
Fill in the big square so that each row and each column contain the numbers 1, 2 and 3. The digits within each coloured area, when combined using the given operation, must equal the given number.





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	18	23	4	10	15	19	21	12	6	17
+ 5										

2. [- Whole Numbers to 10]

	18	15	26	14	12	30	19	13	17	21
- 8										

3. [× Whole Numbers to 10]

	5	1	7	10	4	2	9	8	3	6
× 6										

4. [÷ Whole Numbers to 10]

	45	18	9	90	27	54	63	36	81	72
÷ 9										

5. [Large Number +]

$$\begin{array}{r} 4427 \\ 162 \\ + 3248 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 62 \\ \times 41 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]
Write 10% in decimal form.

6. [Large Number -]

$$\begin{array}{r} 403 \\ - 49 \\ \hline \end{array}$$

9. [Decimals]

$$\begin{array}{r} 4.59 \\ + 2.74 \\ \hline \end{array}$$

12. [Place Value] *
Estimate the sum of 34 and 89 by rounding to the nearest ten before adding.

13. [Operations] *
 $30 \div (5 + 1) =$

14. [Exploring Numbers] *
Which of the numbers 2, 3, 4, 5 and 6 are factors of 5210?

7. [Powers of 10 ×, ÷]
 $4000 \div 100 =$

10. [Fractions]
 $\frac{4}{6} - \frac{3}{6} =$

15. [Number Patterns / Equations]

1, 2, 5, 10, 17, ,

DIAMONDS

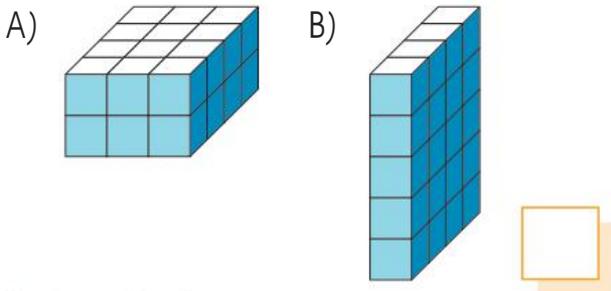
The weight of diamonds is measured in **carats**. There are approximately 142 carats to the ounce. (1 ounce = 28.4 grams)

A diamond weighing 100.10 carats was sold for \$16 548 750 in Geneva in 1995.

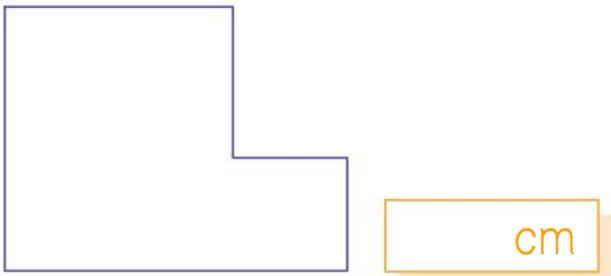


16. [Units of Measurement] *
Circle the longest time.
3 months 100 days 15 weeks

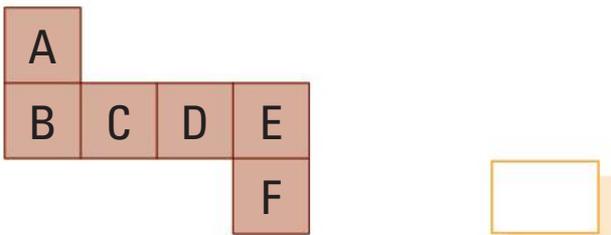
17. [Measuring]
Which prism has the lesser volume?



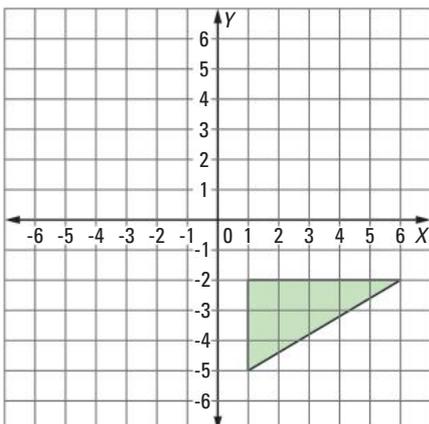
18. [Perimeter / Area]
Using a ruler, find the perimeter of the shape in centimetres.



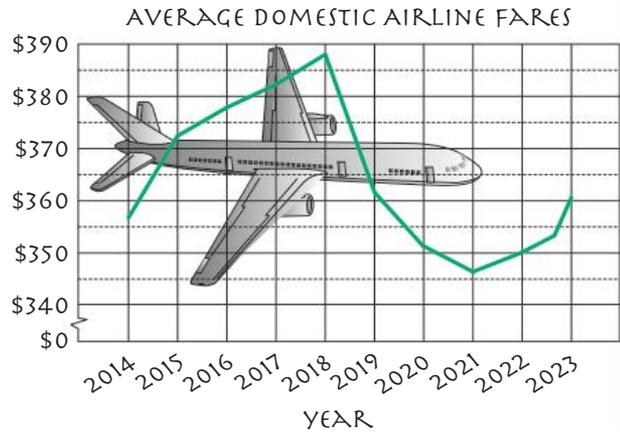
19. [Shapes]
This net forms a cube when folded.
Which letter is on the face opposite to letter F?



20. [Location / Transformation]
Redraw this shape after reflecting it in the Y-axis.



21. [Statistics / Probability]
What was the price difference of an average airline fare between the end of 2018 and the end of 2022?
[Round to the nearest \$10.]



\$

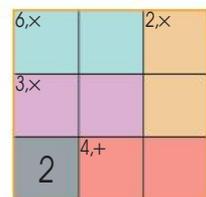
22. [Problem Solving 1]
Move one match to make this statement correct.



23. [Problem Solving 2] *
Which jam jar is the best value?

- A) 350 g for \$6.00
B) 800 g for \$12.00

24. [Problem Solving 3]
Fill in the big square so that each row and each column contain the numbers 1, 2 and 3. The digits within each coloured area, when combined using the given operation, must equal the given number.





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	9	11	15	20	14	12	17	26	13	18
+ 6										

2. [- Whole Numbers to 10]

	18	25	12	19	14	10	27	23	11	16
- 9										

3. [× Whole Numbers to 10]

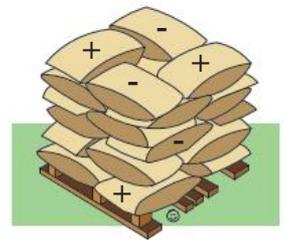
	3	5	8	2	7	1	10	6	4	9
× 3										

4. [÷ Whole Numbers to 10]

	14	70	21	42	56	28	63	49	35	7
÷ 7										

PLUS

The word **PLUS** is short for **SURPLUS**. Originally the symbol "+" was scrawled on boxes or sacks that were overweight and the symbol "-" on those which were underweight.



5. [Large Number +]

$$\begin{array}{r} 241 \\ 354 \\ 123 \\ + 32 \\ \hline \end{array}$$

8. [Large Number ×,+]

$$\begin{array}{r} 18 \\ \times 57 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]
Write 0.75 as a percentage.

 %

6. [Large Number -]

$$\begin{array}{r} 4824 \\ - 537 \\ \hline \end{array}$$

9. [Decimals]

$$\begin{array}{r} 4.98 \\ - 3.36 \\ \hline \end{array}$$

12. [Place Value] *
Estimate the difference between 78 and 54 by rounding to the nearest ten before subtracting.

7. [Powers of 10 ×,+]

$$83\,000 \div 100 =$$

10. [Fractions]

$$\frac{3}{8} + \frac{4}{8} =$$

13. [Operations] *
(13 - 8) × 3 =

14. [Exploring Numbers] *
Which of the numbers 2, 3, 4, 5 and 7 are factors of 1995?

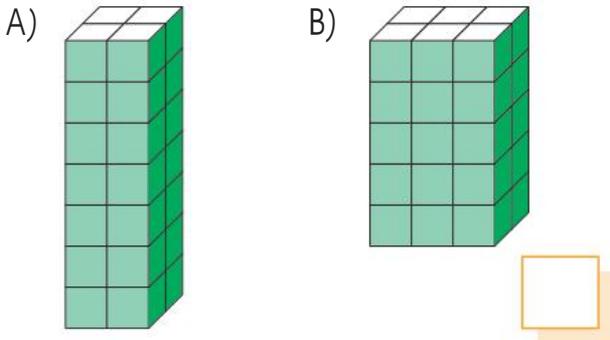
15. [Number Patterns / Equations]

1, 3, 7, 13, 21,

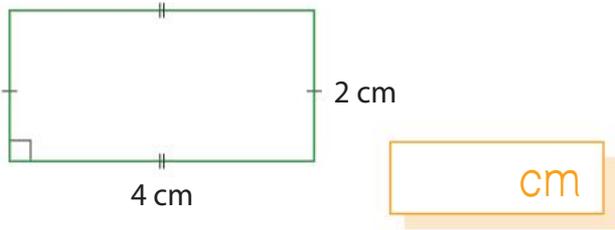
16. [Units of Measurement] *
Circle the longest time.

1 h 1800 s 50 min

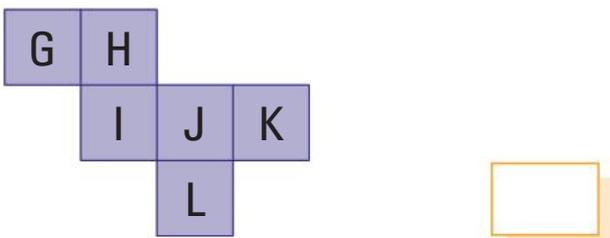
17. [Measuring]
Which prism has the greater volume?



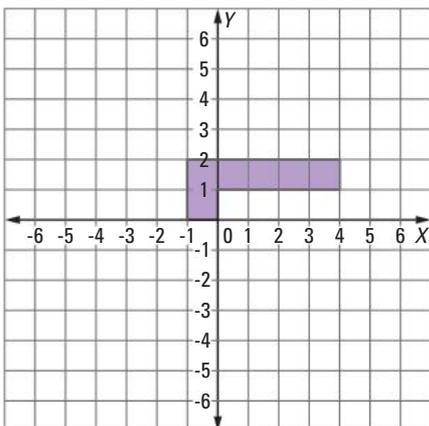
18. [Perimeter / Area]
Find the perimeter of the rectangle.



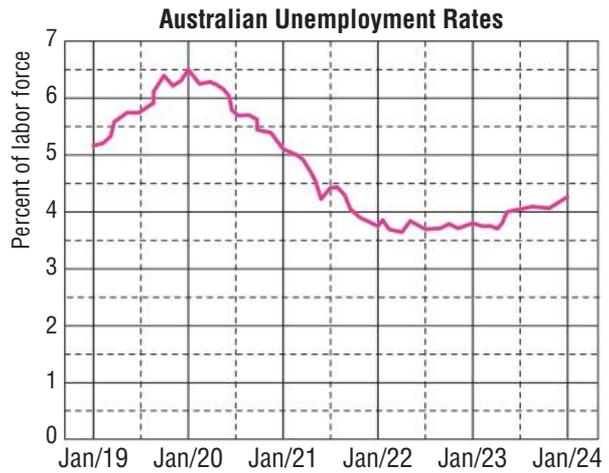
19. [Shapes]
This net forms a cube when folded.
Which letter is on the face opposite to letter J?



20. [Location / Transformation]
Redraw this shape after rotating it 180° around the point of coordinates (-1,2).



21. [Statistics / Probability]
During which of the years shown did the Australian unemployment rate first fall below 4%?



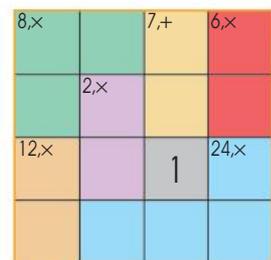
22. [Problem Solving 1]
Move 3 matches to leave 3 squares.



23. [Problem Solving 2] *
Which pack of pencils is the best value?

- A) \$5.60 for 8 pencils
B) \$9 for 12 pencils
-

24. [Problem Solving 3]
Fill in the big square so that each row and each column contain the numbers 1, 2, 3 and 4. The digits within each coloured area, when combined using the given operation, must equal the given number.





Name:

Due Date: / /

Parent's Signature:

1. [+ Whole Numbers to 10]

	17	21	24	6	13	19	12	18	25	20
+ 7										

2. [- Whole Numbers to 10]

	16	8	24	12	20	23	7	11	15	29
- 6										

3. [× Whole Numbers to 10]

	7	5	6	4	1	8	2	9	10	3
× 9										

4. [÷ Whole Numbers to 10]

	10	80	60	30	70	90	20	100	40	50
÷ 10										

HOW FAR?

IT'S ONLY A MOO AWAY!

Long ago in India, the unit of measurement for distance was a cow's **MOO**. One moo was the point at which it could no longer be heard.



Not within a bull's roar!

5. [Large Number +]

$$\begin{array}{r} 316 \\ 480 \\ 6 \\ + 126 \\ \hline \end{array}$$

8. [Large Number ×, ÷]

$$\begin{array}{r} 17 \\ \times 74 \\ \hline \end{array}$$

11. [Decimals / Fractions / Percentages]
Write 0.5 as a percentage.

 %

6. [Large Number -]

$$\begin{array}{r} 2676 \\ - 298 \\ \hline \end{array}$$

9. [Decimals]

$$\begin{array}{r} 1.56 \\ - 0.75 \\ \hline \end{array}$$

12. [Place Value] *
Estimate the product of 27 and 39 by rounding to the nearest ten before multiplying.

7. [Powers of 10 ×, ÷]

$$52000 \div 1000 =$$

10. [Fractions]

$$\frac{7}{10} - \frac{6}{10} =$$

13. [Operations] *
(21 - 14) ÷ 7 =

14. [Exploring Numbers] *
Which of the numbers 2, 3, 4, 5, 6 and 10 are factors of 1050?

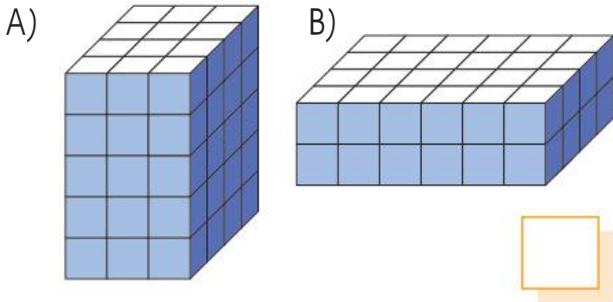
15. [Number Patterns / Equations]

1, 7, 12, 16, 19,

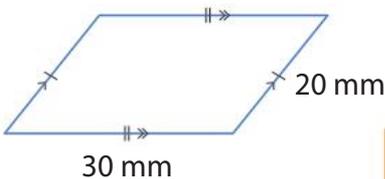
16. [Units of Measurement] *
Circle the shortest time.

1500 s 300 min 4 h

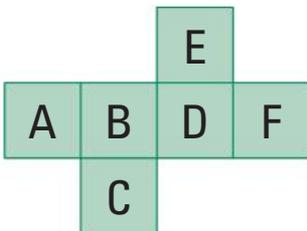
17. [Measuring]
Which prism has the greater volume?



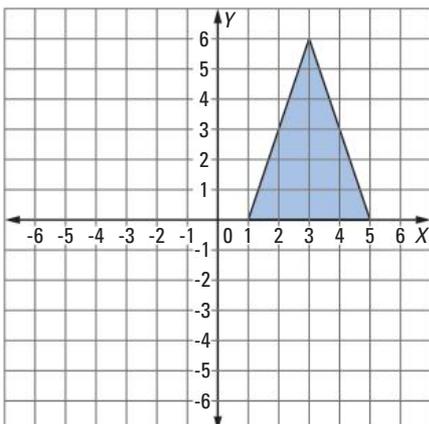
18. [Perimeter / Area]
Find the perimeter of the parallelogram.



19. [Shapes]
This net forms a cube when folded.
Which letter is on the face opposite to letter A?

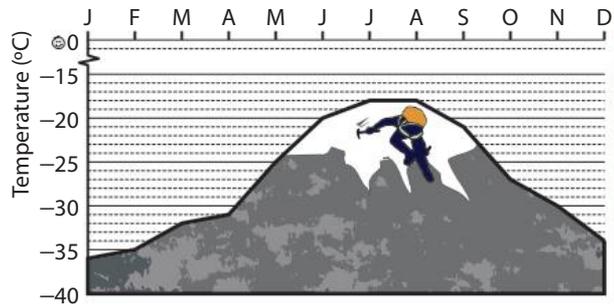


20. [Location / Transformation]
Redraw this shape after rotating it 90° anticlockwise around the point of coordinates (1,0).



21. [Statistics / Probability]
What is the greatest average monthly temperature on the summit of Mt Everest?

Average monthly temperatures - Mt Everest Summit



22. [Problem Solving 1]
Move one match to make this statement correct.



23. [Problem Solving 2] *
Which bag of dishwasher capsules is the best value?

- A) \$18 for 36 capsules
B) \$30 for 50 capsules

24. [Problem Solving 3]
Fill in the big square so that each row and each column contain the numbers 1, 2, 3 and 4. The digits within each coloured area, when combined using the given operation, must equal the given number.

