

first edition

MATHS MATE

level
3.1

trial pack

Includes:

How to use Maths Mate

Record keeping sheet: Term 1

Worksheet masters: Term 1, Sheets 1 to 4

Test masters: 1A & 1B

Worksheet answers: Term 1, Sheets 1 to 4

Test answers: 1A & 1B

Problem Solving Hints & Solutions

Skill Builders:

2.7 Adding numbers by using base 10 blocks.

2.8 Completing addition number sentences by using base 10 representation.



J. B. Wright

5. Students complete the Skill Builder. Students are supported with instructions and worked examples.

8. Decimal \times, \div

Skill 8: Multiplying and dividing money by a decimal number (e.g. $0.62 \times 4 = 2.48$)

• Multiply from right to left, disregarding the decimal point.
 • Count the number of places to the right of the decimal point in the question.
 • Position the decimal point the same number of places from the right in the answer.

Q. $0.62 \times 4 =$ **A.** $0.62 \times 4 = 2.48$ $4 \times 2 = 8$ write 8
 $4 \times 6 = 24$ carry 2, write 4
 $4 \times 0 + \text{carry } 2 = 2$ write 2

$\begin{array}{r} 0.62 \\ \times 4 \\ \hline 2.48 \end{array}$ *7 decimal places in question so leave decimal point 7 places from right in the answer*

a) $0.9 \times 3 =$ 2.7 b) $0.8 \times 2 =$ c) $0.7 \times 5 =$

$\begin{array}{r} 0.9 \\ \times 3 \\ \hline 2.7 \end{array}$ $\begin{array}{r} 0.8 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 0.7 \\ \times 5 \\ \hline \end{array}$

d) $0.4 \times 6 =$ e) $0.3 \times 7 =$ f) $0.6 \times 9 =$

$\begin{array}{r} 0.4 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 0.3 \\ \times 7 \\ \hline \end{array}$ $\begin{array}{r} 0.6 \\ \times 9 \\ \hline \end{array}$

g) $5.1 \times 3 =$ h) $4.3 \times 6 =$ i) $2.7 \times 4 =$






$\begin{array}{r} 5.1 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 4.3 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 2.7 \\ \times 4 \\ \hline \end{array}$

j) $3.8 \times 2 =$ k) $1.9 \times 5 =$ l) $7.3 \times 8 =$

$\begin{array}{r} 3.8 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 1.9 \\ \times 5 \\ \hline \end{array}$ $\begin{array}{r} 7.3 \\ \times 8 \\ \hline \end{array}$

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6. The Skill Builders also have a Glossary and Maths Facts.

cylinder	• A solid with two parallel circular bases of the same size.	
data	• Collection of information that can include facts, numbers or measurements.	
day	• A unit of time equal to 24 hours.	A day starts and ends at midnight. 
daylight saving time	• Use of fictitious time in the summer months that prolongs light in the evening hours.	During daylight saving clocks are one hour ahead of real time.
deca	• Prefix meaning ten.	Decathlon is an athletics contest with ten events.
decade	• A unit of time equal to 10 years.	2011 to 2020 make a decade.
decagon	• A shape with 10 sides.	
decimal number	A number based on the ten place value system where a decimal point separates the units and tenths.	
decimal place		The decimal number 4.3 represents: 4 - ones 3 - tenths 0.4 and 3 tenths.
decimal point (.)	• A point that separates the units and tenths in a decimal number.	
decrease	• To make smaller.	
deduct	• To take away.	

page 334 www.mathsmate.co.nz © Maths Mate 4.2/5.1 Skill Builder Glossary

7. Testing is available after every 4 Maths Mate sheets.

MATHS MATE
Level 4.2
Test 1
Covering worksheets 1.1 - 1.4

1. [Whole Numbers to 10] + 1

2. [Whole Numbers to 10] - 4

3. [Whole Numbers to 12] $\times 5$

4. [Whole Numbers to 12] $\div 10$

5. [Large Number \div] $\begin{array}{r} 6590 \\ - 2340 \\ \hline \end{array}$

6. [Large Number \div] $\frac{96000}{100} =$

7. [Decimal \div] $\begin{array}{r} 2.75 \\ + 6.19 \\ \hline \end{array}$

8. [Decimal \times] $\begin{array}{r} 0.8 \\ \times 4 \\ \hline \end{array}$

9. [Fraction \div] $\frac{3}{10} \div \frac{4}{10} =$

10. [Fraction \times] $\frac{2}{7} \times 3 =$

11. [Percentages] Write as a percentage: 37 out of 100.

12. [Decimals / Fractions / Percentages] What percentage of the shape is shaded?

13. [Integers] Which state has the lowest recorded temperature?
A) -13°C Tasmania
B) -11°C Victoria
C) -23°C NSW

14. [Rates / Ratios] Simplify the ratio 12 : 16

15. [Indices / Square Roots] Write the product as a power: $9 \times 9 \times 9 \times 9 =$

16. [Order of Operations] $12 + 3 - 8 =$

17. [Exploring Numbers] Which number is the largest?
A) 20543
B) 20345
C) 20534

18. [Multiples / Factors / Primes] List the common multiples of 2 and 5 up to 35.

19. [Number Patterns] Complete the pattern: 4, 9, 14, 19, 24,

20. [Expressions] Simplify $z + 8$

21. [Substitution] If $d = 7$, find the value of $d + 9$

22. [Equations] $+ 6 = 14$

page 1 0 1 2 3 4 5 6 7 8 9 + = \times \div $\frac{\square}{\square}$ $\square \square \square \square \square \square \square \square \square \square$


23. [Coordinate] Start at the origin. Move 6 units to the left along the x-axis and then up 3 units. Plot a point. What are the coordinates of the point?

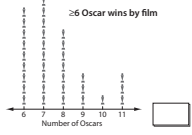
24. [Units of Measurement / Time] 6 hours = minutes

25. [Perimeter] Use a ruler to find the perimeter of the equilateral triangle in centimetres.

26. [Area / Volume] Find the area of the rectangle.

27. [Shapes] Use a protractor to measure this angle.

28. [Location / Transformations] Which of these Italian cities is west of Cremona?


29. [Statistical] How many films have won ten or more Oscars?


30. [Probability] There are 6 toffee, 14 caramel and 8 nut centred chocolates in a box. How many chocolates do you have to pick to make sure you have at least one nut centred chocolate?

31. [Problem Solving 1] The digits 2, 4, 7, 8 and 9 are arranged to form even, five-digit numbers. What is the tens digit in the largest of these numbers?

32. [Problem Solving 2] Some cubes have been removed from an array of $4 \times 3 \times 3$. How many cubes remain?

33. [Problem Solving 3] Each of the digits 1 to 9 appears once in the sum below. Fill in the missing digits.
 $\begin{array}{r} \square 4 2 \\ + \square \square 5 \\ \hline \end{array}$

page 2 0 1 2 3 4 5 6 7 8 9 + = \times \div $\frac{\square}{\square}$ $\square \square \square \square \square \square \square \square \square \square$

8. If a student is having difficulty with their problem solving strategies, then the Problem Solving Hints & Solutions can be used by teachers to develop students' problem solving skills.

1.3

31. Hint: Consider the properties of even numbers. Make an organised list ordering the digits from largest to smallest.

Solution: To be even, the numbers must end in 4 or 6. The largest possibilities for each ending are 76534 and 75436. The largest number is 76534 and the hundreds digit is 5.

MATHS MATE

level
3.1

Name:

Class:

Teacher:

Worksheet Results

Term 1

Sheet 1	Sheet 2	Sheet 3	Sheet 4	Skill Builder links
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Sheet 5	Sheet 6	Sheet 7	Sheet 8	Skill Builder links
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NUMBER & ALGEBRA	1. [Counting]
	2. [Addition / Subtraction]
	3. [Multiplication / Division]
	4. [+ Whole Numbers]
	5. [- Whole Numbers]
	6. [× Whole Numbers]
	7. [÷ Whole Numbers]
	8. [Word Problems]
	9. [Fractions]
	10. [Place Value]
	11. [Word Numbers]
	12. [Money]
	13. [Number Patterns]
MEASUREMENT & GEOMETRY	14. [Time]
	15. [Measuring]
	16. [Shapes]
	17. [Location]
S & P	18. [Statistics / Probability]
PROBLEM SOLVING	19. [Problem Solving 1]
	20. [Problem Solving 2]
	21. [Problem Solving 3]
Total Correct	

1	1	1	1	1,2,3
2	2	2	2	2,2,3,4
3	3	3	3	3,3,12
4	4	4	4	4,2,3,4,5,6
5	5	5	5	5,2,3,4,5,6
6	6	6	6	6,2,3,5,6
7	7	7	7	7,2
8	8	8	8	8,1,2,3,4
9	9	9	9	9,2,4
10	10	10	10	10,1,2
11	11	11	11	11,1,2
12	12	12	12	12,1,2
13	13	13	13	13,1
14	14	14	14	14,1,2
15	15	15	15	15,1
16	16	16	16	16,1
17	17	17	17	17,1,2
18	18	18	18	18,4
19	19	19	19	Hints & Solutions
20	20	20	20	Hints & Solutions
21	21	21	21	Hints & Solutions
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

1	1	1	1	1,4,10
2	2	2	2	2,5,12
3	3	3	3	3,4,13
4	4	4	4	4,2,3,5,6
5	5	5	5	5,2,3,4,5,6
6	6	6	6	6,4,5,6
7	7	7	7	7,3
8	8	8	8	8,1,2,3,4
9	9	9	9	9,3,6
10	10	10	10	10,3
11	11	11	11	11,1
12	12	12	12	12,3
13	13	13	13	13,2
14	14	14	14	14,3
15	15	15	15	15,2
16	16	16	16	16,2
17	17	17	17	17,3
18	18	18	18	18,6
19	19	19	19	Hints & Solutions
20	20	20	20	Hints & Solutions
21	21	21	21	Hints & Solutions
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MATHS MATE

Term 1 - Sheet 1

level
3.1

Name:

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

Parent's Signature:

1. [Counting]

Write the numbers before and after 200.

	200	
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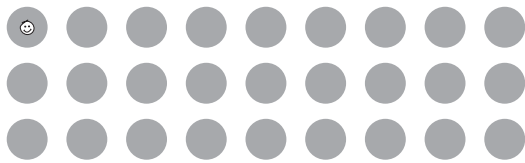
2. [Addition / Subtraction]

Draw lines to join pairs of numbers that add to 10.

2	4	9	7	5
1	8	6	5	3

3. [Multiplication / Division]

Complete the multiplication.



3 rows of 9 =

	×		=	
--	---	--	---	--

4. [+ Whole Numbers]

	2	14	9	3	16
+ 8					

5. [- Whole Numbers]

	19	14	16	13	18
- 10					

6. [× Whole Numbers]

	7	9	11	4	6
× 3					

7. [÷ Whole Numbers]

$$80 \div 10 = \square$$

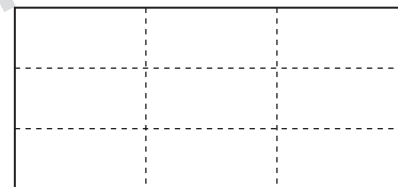
8. [Word Problems]

The school zone speed limit in New Zealand is 40 km/h. For New Zealand's highways the speed limit is 60 km/h higher. What is the speed limit for New Zealand's highways? [Write the number sentence.]

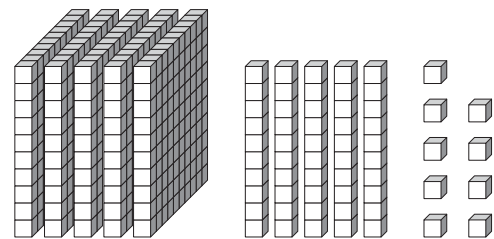
	=					
--	---	--	--	--	--	--

9. [Fractions]

Colour one ninth of the rectangle.



10. [Place Value]



$$5 \text{ hundreds } 5 \text{ tens } 9 \text{ ones} = \square$$

11. [Word Numbers]

Write in numerals:
nineteen

--

12. [Money]
Circle the coin with the greatest value.

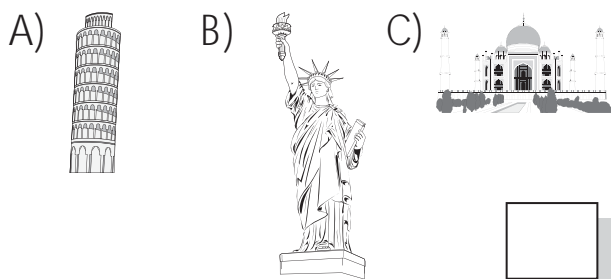


13. [Number Patterns]
13, 15, 17, 19, 21, ,

14. [Time]
17 February 2026 marks the beginning of the Chinese New Year of the Horse. Which day of the week is this?

FEBRUARY - 2026						
Sun 1	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	Sat 7
Sun 8	Mon 9	Tue 10	Wed 11	Thu 12	Fri 13	Sat 14
Sun 15	Mon 16	Tue 17	Wed 18	Thu 19	Fri 20	Sat 21
Sun 22	Mon 23	Tue 24	Wed 25	Thu 26	Fri 27	Sat 28

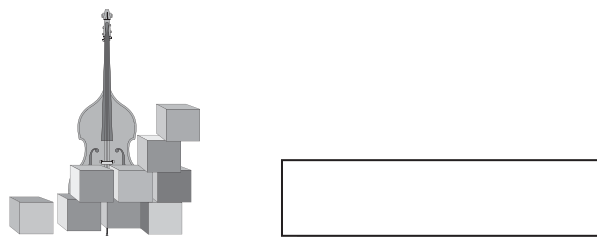
15. [Measuring]
Which landmark is the widest?



16. [Shapes]
Circle the pyramid.



17. [Location]
Is the cello 'in front of' or 'behind' the blocks?



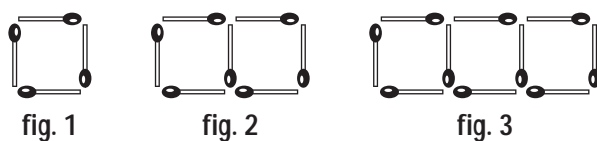
18. [Statistics / Probability]
Complete the tally table for the number of balls used in:
billiards - 3, snooker - 22,
8-ball - 17

Number of balls used in games

Game	Tally
billiards	III
snooker	
8-ball	

19. [Problem Solving 1] *
Which number is halfway between 3 and 25?

20. [Problem Solving 2] *
If you continue the pattern, how many matchsticks would be in the fifth figure?



21. [Problem Solving 3] *
So far Ricky's team has one outright and two 1st innings wins. How many points are they on?

cricket result	points
outright win	6
1st innings win	2
outright loss	0

MATHS MATE

Term 1 - Sheet 2

level
3.1

Name:

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

Parent's Signature:

1. [Counting]

Write the numbers before and after 985.

	985	
--	-----	--

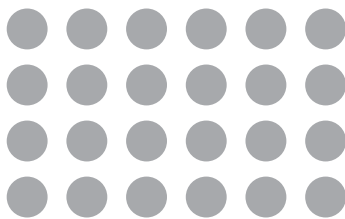
2. [Addition / Subtraction]

Draw lines to join pairs of numbers that add to 20.

13	15	19	14	12
6	8	1	5	7

3. [Multiplication / Division]

Complete the multiplication.



4 rows of 6 =

	×		=	
--	---	--	---	--

4. [+ Whole Numbers]

	0	19	3	7	15
+ 4					

5. [- Whole Numbers]

	8	14	21	9	7
- 5					

6. [x Whole Numbers]

	7	2	5	3	9
× 9					

7. [÷ Whole Numbers]

5 ÷ 1 =

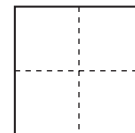
8. [Word Problems]

A roll of 40 one-dollar coins weighs 200 grams. How many grams does one coin weigh?
[Write the number sentence.]

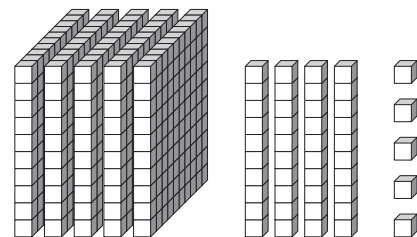
	=	g
--	---	---

9. [Fractions]

Colour two quarters of the square.



10. [Place Value]



	hundreds		tens		ones
= 					

11. [Word Numbers]

Write the number 90 in words.

--

12. [Money]
Circle the coin with the least value.



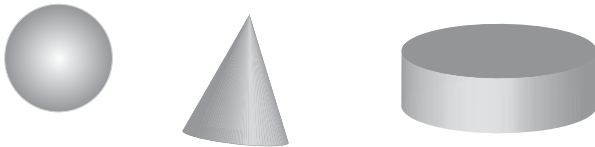
13. [Number Patterns]
14, 17, 20, 23, 26, ,

14. [Time]
How many weekends in May 2021?

MAY - 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
Sun 2	Mon 3	Tue 4	Wed 5	Thu 6	Fri 7	Sat 8
Sun 9	Mon 10	Tue 11	Wed 12	Thu 13	Fri 14	Sat 15
Sun 16	Mon 17	Tue 18	Wed 19	Thu 20	Fri 21	Sat 22
Sun 23	Mon 24	Tue 25	Wed 26	Thu 27	Fri 28	Sat 29
Sun 30	Mon 31	Tue	Wed	Thu	Fri	Sat

15. [Measuring]
Which is likely to be the longest?
A) javelin
B) sword
C) relay baton

16. [Shapes]
Circle the cylinder.



17. [Location]
Is the man 'inside' or 'outside' the bath?



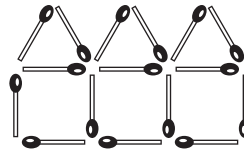
18. [Statistics / Probability]
Complete the tally table.

New stamp sets - 2012

Set	Tally	Number
Precious moments	I	
Year of the dragon		2
City transport		5
Technology - then & now		5
Football legends		8

19. [Problem Solving 1] *
Which number is halfway between 6 and 30?

20. [Problem Solving 2] *
This is a row of 3 matchstick houses. How many matchsticks would it take to make a row of 6 matchstick houses?



21. [Problem Solving 3] *
Todd's team scored 3 touchdowns and 1 field goal. How many points did Todd's team score?

grid iron score	points
touchdown	6
field goal	3
two-point conversion	2
point after touchdown	1

MATHS MATE

Term 1 - Sheet 3

level
3.1

Name:

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

Parent's Signature:

1. [Counting]

Count backwards from 622.

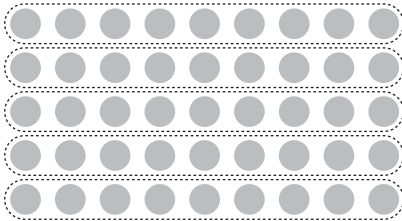
622				
-----	--	--	--	--

2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$8 + 7 + 9 + 3 = \square$$

3. [Multiplication / Division]



45 divided into 5 groups =

$$45 \div 5 = \square$$

4. [+ Whole Numbers]

	10	15	19	3	18
+ 7					

5. [- Whole Numbers]

	8	10	5	26	12
- 3					

6. [x Whole Numbers]

	5	7	12	3	6
x 4					

7. [+ Whole Numbers]

$$70 \div 10 = \square$$

8. [Word Problems]

Lions live in prides of about five adult female lions and two adult male lions, and their cubs. How many adult female lions would live in eight prides?

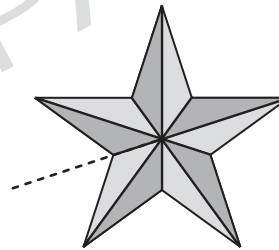
[Write the number sentence.]

	=
--	---

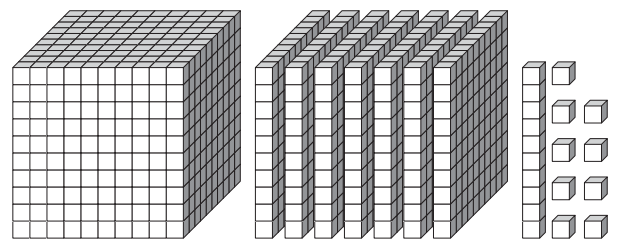
9. [Fractions]

Draw lines to divide the star into fifths.

[Hint: A line has been drawn for you.]



10. [Place Value]



1 thousand 7 hundreds

1 ten 9 ones =

--

11. [Word Numbers]

Write the number 72 in words.

--

12. [Money]
Which note has the least value?



13. [Number Patterns]

9, 13, 17, 21, 25, ,

14. [Time]

What is the date of the second Friday in June 2021?

JUNE - 2021						
Sun	Mon	Tue 1	Wed 2	Thu 3	Fri 4	Sat 5
Sun 6	Mon 7	Tue 8	Wed 9	Thu 10	Fri 11	Sat 12
Sun 13	Mon 14	Tue 15	Wed 16	Thu 17	Fri 18	Sat 19
Sun 20	Mon 21	Tue 22	Wed 23	Thu 24	Fri 25	Sat 26
Sun 27	Mon 28	Tue 29	Wed 30	Thu	Fri	Sat

15. [Measuring]

How much shorter is the Mataura River than the Waikato River?

- A) Waikato River (Nth Island)
425 kilometres
- B) Mataura River (Sth Island)
240 kilometres

 km

16. [Shapes]

What shape is this object?



17. [Location]

Draw a paint brush next to the ladder.



18. [Statistics / Probability]

Complete the tally table. How many vowels are in the longest word typed by the left hand?

'Stewardesses'

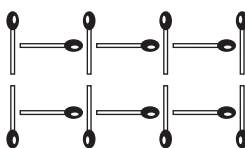
Vowel	Tally	Number
a		1
e		

19. [Problem Solving 1] *

Which number is halfway between 5 and 31?

20. [Problem Solving 2] *

This is a 3-section matchstick fence. How many matchsticks would it take to make an 8-section fence?



21. [Problem Solving 3] *

Marian shot 4 goals from inside the 3-point line and 2 goals from outside the 3-point line. How many points did Marian score?

basketball goals	points
foul shot	1
goal inside the 3-point line	2
goal outside the 3-point line	3

MATHS MATE

Term 1 - Sheet 4

level
3.1

Name:

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

Parent's Signature:

1. [Counting]

Count on from 2376.

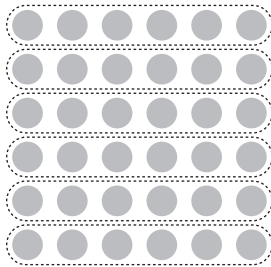
2376			
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2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$8 + 7 + 4 + 2 = \square$$

3. [Multiplication / Division]



36 divided into 6 groups =

$$\square \div \square = \square$$

4. [+ Whole Numbers]

	6	15	9	14	18
+ 9					

5. [- Whole Numbers]

	20	12	11	29	13
- 7					

6. [x Whole Numbers]

	4	8	9	2	10
x 8					

7. [+ Whole Numbers]

$$3 \div 1 = \square$$

8. [Word Problems]

A ground squirrel whose usual temperature is 38°C has a hibernation temperature of 4°C . How many degrees less is the squirrel's hibernation temperature than its usual temperature?

[Write the number sentence.]

	=	$^{\circ}\text{C}$
--	---	--------------------

9. [Fractions]

Draw lines to divide the sign into thirds.



10. [Place Value]

Write the numeral.




T	H	T	O	

11. [Word Numbers]

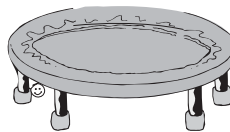
Write in numerals:
forty-five

--

12. [Money]
Which note has the greatest value?

- A) 
- B) 
- C) 

17. [Location]
Draw a person above the trampoline.



18. [Statistics / Probability]
Complete the tally table. How many vowels are in our longest word? **'Floccinaucinihilipilification'**

Vowel	Tally	Number
o		2
i		
a		
u		

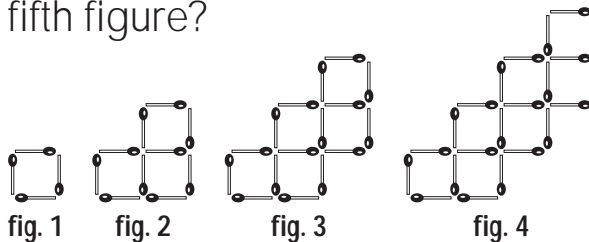
13. [Number Patterns]
30, 35, 40, 45, ,

14. [Time]
How many week days in September 2021?

SEPTEMBER - 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	Fri	Sat

19. [Problem Solving 1] *
Which number is halfway between 2 and 20?

20. [Problem Solving 2] *
If you continue the pattern, how many matchsticks would be in the fifth figure?



15. [Measuring]
How much deeper is the Grand Canyon than Fish River Canyon?

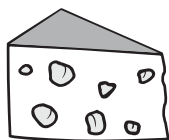
- A) Fish River Canyon (Namibia)
550 metres
- B) Grand Canyon (USA)
1600 metres

 m

21. [Problem Solving 3] *
The Ravens had 5 wins, 1 draw, 2 losses and 1 bye. How many points did they score?

football result	points
win	4
draw	2
loss	0
bye	0

16. [Shapes]
What shape is this object?



1. [Counting]

Count backwards from 283.

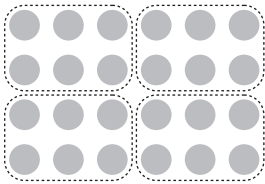
283				
-----	--	--	--	--

2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$8 + 7 + 8 + 3 = \square$$

3. [Multiplication / Division]



24 divided into 4 groups =

$$24 \div 4 = \square$$

4. [+ Whole Numbers]

	14	7	16	13	5
+ 7					

5. [- Whole Numbers]

	13	26	15	8	12
- 3					

6. [x Whole Numbers]

	7	12	9	3	5
x 8					

7. [+ Whole Numbers]

$$90 \div 10 = \square$$

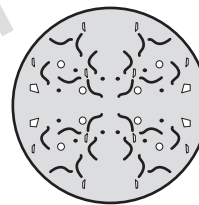
8. [Word Problems]

In the 2012 Olympics men's Marathon, 85 men finished the race and 20 did not finish. How many men started the marathon?
[Write the number sentence.]

=

9. [Fractions]

Draw lines to divide the pizza into quarters.



10. [Place Value]

Write the numeral.

T H T O	□

11. [Word Numbers]

Write in numerals:
twenty-one

--

1. [Counting]

Count backwards from 262.

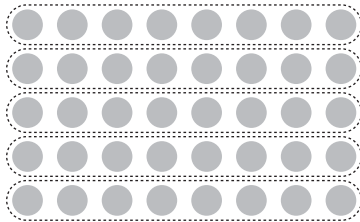
262				
-----	--	--	--	--

2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$6 + 9 + 8 + 2 = \square$$

3. [Multiplication / Division]



40 divided into 5 groups =

$$40 \div 5 = \square$$

4. [+ Whole Numbers]

	15	8	12	4	17
+ 7					

5. [- Whole Numbers]

	10	4	25	7	11
- 3					

6. [x Whole Numbers]

	5	11	9	4	6
x 8					

7. [+/- Whole Numbers]

$$40 \div 10 = \square$$

8. [Word Problems]

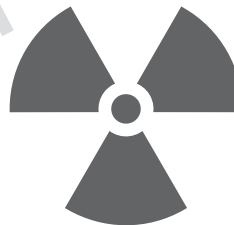
In the 2012 Olympics women's Marathon, 107 women finished the race and 11 did not finish. How many women started the marathon?

[Write the number sentence.]

=

9. [Fractions]

Draw lines to divide this radioactive symbol into thirds.



10. [Place Value]

Write the numeral.

T H T O	<input type="text"/>

11. [Word Numbers]

Write in numerals:

eighty-seven

MATHS MATE

Term 1 - Sheet 1

level
3.1

Name:

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

Parent's Signature:

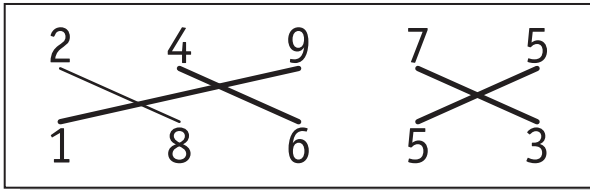
1. [Counting]

Write the numbers before and after 200.

199 200 **201**

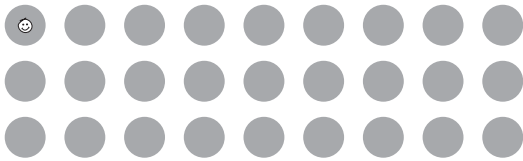
2. [Addition / Subtraction]

Draw lines to join pairs of numbers that add to 10.



3. [Multiplication / Division]

Complete the multiplication.



3 rows of 9 =

3 × **9** = **27**

4. [+ Whole Numbers]

	2	14	9	3	16
+ 8	10	22	17	11	24

5. [- Whole Numbers]

	19	14	16	13	18
- 10	9	4	6	3	8

6. [× Whole Numbers]

	7	9	11	4	6
× 3	21	27	33	12	18

7. [÷ Whole Numbers]

80 ÷ 10 = **8**

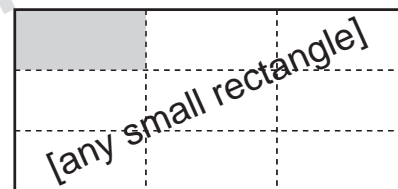
8. [Word Problems]

The school zone speed limit in New Zealand is 40 km/h. For New Zealand's highways the speed limit is 60 km/h higher. What is the speed limit for New Zealand's highways?
[Write the number sentence.]

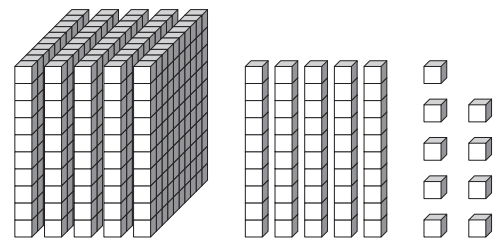
40 + 60 = 100 km/h

9. [Fractions]

Colour one ninth of the rectangle.



10. [Place Value]



5 hundreds 5 tens 9 ones = **559**

11. [Word Numbers]

Write in numerals:
nineteen

19

12. [Money]
Circle the coin with the greatest value.



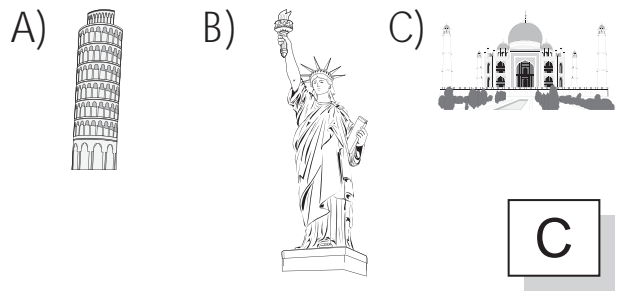
13. [Number Patterns]
13, 15, 17, 19, 21, 23, 25

14. [Time]
17 February 2026 marks the beginning of the Chinese New Year of the Horse. Which day of the week is this?

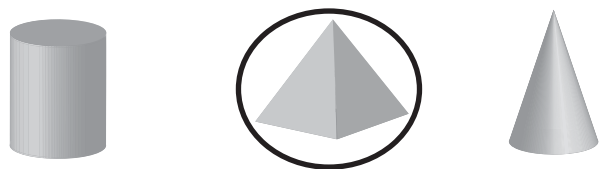
FEBRUARY - 2026						
Sun 1	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	Sat 7
Sun 8	Mon 9	Tue 10	Wed 11	Thu 12	Fri 13	Sat 14
Sun 15	Mon 16	Tue 17	Wed 18	Thu 19	Fri 20	Sat 21
Sun 22	Mon 23	Tue 24	Wed 25	Thu 26	Fri 27	Sat 28

Tuesday

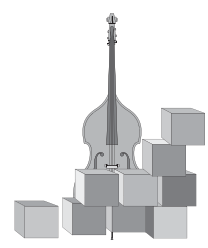
15. [Measuring]
Which landmark is the widest?



16. [Shapes]
Circle the pyramid.



17. [Location]
Is the cello 'in front of' or 'behind' the blocks?



behind

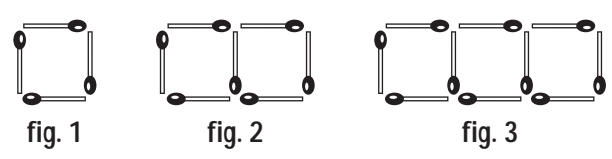
18. [Statistics / Probability]
Complete the tally table for the number of balls used in:
billiards - 3, snooker - 22,
8-ball - 17

Number of balls used in games

Game	Tally
billiards	III
snooker	IIII IIII IIII IIII II
8-ball	IIII IIII IIII II

19. [Problem Solving 1] *
Which number is halfway between 3 and 25? 14

20. [Problem Solving 2] *
If you continue the pattern, how many matchsticks would be in the fifth figure?



16

21. [Problem Solving 3] *
So far Ricky's team has one outright and two 1st innings wins. How many points are they on?

cricket result	points
outright win	6
1st innings win	2
outright loss	0

10

MATHS MATE

Term 1 - Sheet 2

level
3.1

Name:

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

Parent's Signature:

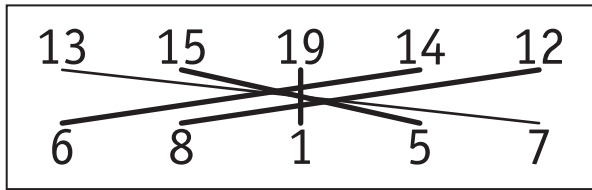
1. [Counting]

Write the numbers before and after 985.

984	985	986
-----	-----	-----

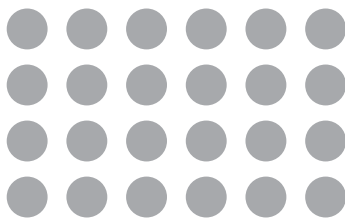
2. [Addition / Subtraction]

Draw lines to join pairs of numbers that add to 20.



3. [Multiplication / Division]

Complete the multiplication.



4 rows of 6 =

4	×	6	=	24
---	---	---	---	----

4. [+ Whole Numbers]

	0	19	3	7	15
+ 4	4	23	7	11	19

5. [- Whole Numbers]

	8	14	21	9	7
- 5	3	9	16	4	2

6. [× Whole Numbers]

	7	2	5	3	9
× 9	63	18	45	27	81

7. [÷ Whole Numbers]

5 ÷ 1 = 5

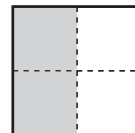
8. [Word Problems]

A roll of 40 one-dollar coins weighs 200 grams. How many grams does one coin weigh? [Write the number sentence.]

200 ÷ 40 = 5 g

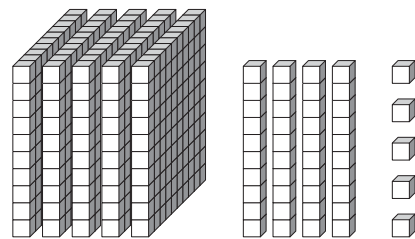
9. [Fractions]

Colour two quarters of the square.



[any 2 small squares]

10. [Place Value]



5 hundreds 4 tens 5 ones
= 545

11. [Word Numbers]

Write the number 90 in words.

ninety

12. [Money]
Circle the coin with the least value.



13. [Number Patterns]

14, 17, 20, 23, 26, 29, 32

14. [Time]

How many weekends in May 2021?

MAY - 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
Sun 2	Mon 3	Tue 4	Wed 5	Thu 6	Fri 7	Sat 8
Sun 9	Mon 10	Tue 11	Wed 12	Thu 13	Fri 14	Sat 15
Sun 16	Mon 17	Tue 18	Wed 19	Thu 20	Fri 21	Sat 22
Sun 23	Mon 24	Tue 25	Wed 26	Thu 27	Fri 28	Sat 29
Sun 30	Mon 31	Tue	Wed	Thu	Fri	Sat

5

15. [Measuring]

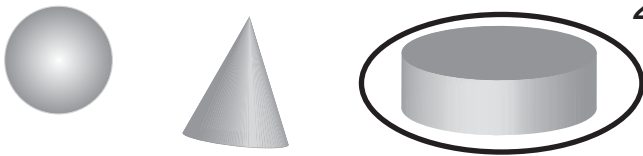
Which is likely to be the longest?

- A) javelin
B) sword
C) relay baton

A

16. [Shapes]

Circle the cylinder.



17. [Location]

Is the man 'inside' or 'outside' the bath?



inside

18. [Statistics / Probability]

Complete the tally table.

New stamp sets - 2012

Set	Tally	Number
Precious moments	I	6
Year of the dragon		2
City transport		5
Technology - then & now		5
Football legends	III	8

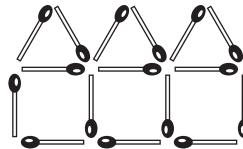
19. [Problem Solving 1] *

Which number is halfway between 6 and 30?

18

20. [Problem Solving 2] *

This is a row of 3 matchstick houses. How many matchsticks would it take to make a row of 6 matchstick houses?



31

21. [Problem Solving 3] *

Todd's team scored 3 touchdowns and 1 field goal. How many points did Todd's team score?

grid iron score	points
touchdown	6
field goal	3
two-point conversion	2
point after touchdown	1

21

MATHS MATE

Term 1 - Sheet 3

level
3.1

Name:

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

Parent's Signature:

1. [Counting]

Count backwards from 622.

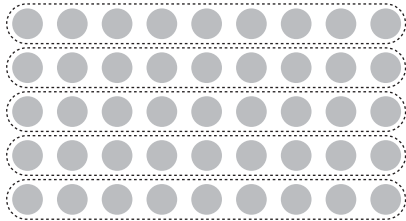
622	621	620	619	618
-----	-----	-----	-----	-----

2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$8 + \textcircled{7} + 9 + \textcircled{3} = \boxed{27}$$

3. [Multiplication / Division]



45 divided into 5 groups =

$$45 \div 5 = \boxed{9}$$

4. [+ Whole Numbers]

	10	15	19	3	18
+ 7	17	22	26	10	25

5. [- Whole Numbers]

	8	10	5	26	12
- 3	5	7	2	23	9

6. [× Whole Numbers]

	5	7	12	3	6
× 4	20	28	48	12	24

7. [÷ Whole Numbers]

$$70 \div 10 = \boxed{7}$$

8. [Word Problems]

Lions live in prides of about five adult female lions and two adult male lions, and their cubs. How many adult female lions would live in eight prides?

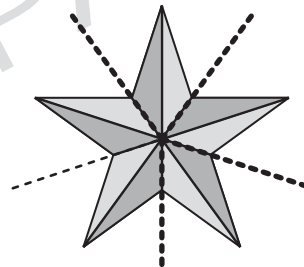
[Write the number sentence.]

$$\boxed{8 \times 5 = 40}$$

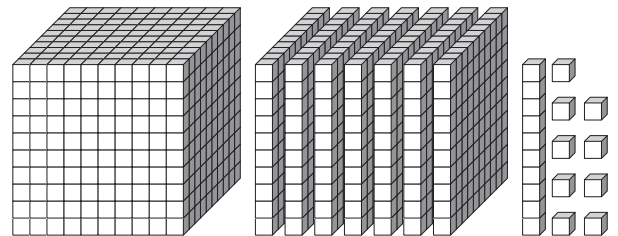
9. [Fractions]

Draw lines to divide the star into fifths.

[Hint: A line has been drawn for you.]



10. [Place Value]



1 thousand 7 hundreds

1 ten 9 ones =




$$\boxed{1719}$$

11. [Word Numbers]

Write the number 72 in words.

$$\boxed{\text{seventy-two}}$$

12. [Money]
Which note has the least value?

- A) 
- B) 
- C) 

A

13. [Number Patterns]

9, 13, 17, 21, 25, 29, 33

14. [Time]

What is the date of the second Friday in June 2021?

JUNE - 2021						
Sun	Mon	Tue 1	Wed 2	Thu 3	Fri 4	Sat 5
Sun 6	Mon 7	Tue 8	Wed 9	Thu 10	Fri 11	Sat 12
Sun 13	Mon 14	Tue 15	Wed 16	Thu 17	Fri 18	Sat 19
Sun 20	Mon 21	Tue 22	Wed 23	Thu 24	Fri 25	Sat 26
Sun 27	Mon 28	Tue 29	Wed 30	Thu	Fri	Sat

11 June 2021

OR 11/6/2021

15. [Measuring]

How much shorter is the Mataura River than the Waikato River?

- A) Waikato River (Nth Island)
425 kilometres
- B) Mataura River (Sth Island)
240 kilometres

185 km

16. [Shapes]

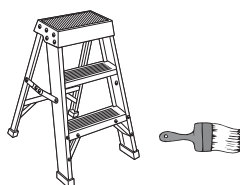
What shape is this object?



rectangular prism

17. [Location]

Draw a paint brush next to the ladder.



18. [Statistics / Probability]

Complete the tally table. How many vowels are in the longest word typed by the left hand?

'Stewardesses'

Vowel	Tally	Number
a		1
e		3

4

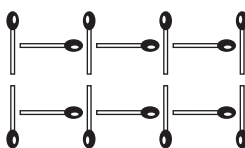
19. [Problem Solving 1] *

Which number is halfway between 5 and 31?

18

20. [Problem Solving 2] *

This is a 3-section matchstick fence. How many matchsticks would it take to make an 8-section fence?



34

21. [Problem Solving 3] *

Marian shot 4 goals from inside the 3-point line and 2 goals from outside the 3-point line. How many points did Marian score?

basketball goals	points
foul shot	1
goal inside the 3-point line	2
goal outside the 3-point line	3

14

MATHS MATE

Term 1 - Sheet 4

level
3.1

Name:

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

Parent's Signature:

1. [Counting]

Count on from 2376.

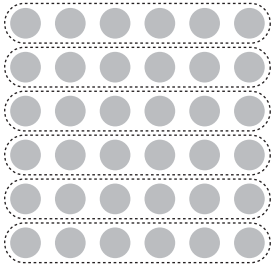
2376	2377	2378	2379
------	------	------	------

2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$\textcircled{8} + 7 + 4 + \textcircled{2} = \boxed{21}$$

3. [Multiplication / Division]



36 divided into 6 groups =

$$\boxed{36} \div \boxed{6} = \boxed{6}$$

4. [+ Whole Numbers]

	6	15	9	14	18
+ 9	15	24	18	23	27

5. [- Whole Numbers]

	20	12	11	29	13
- 7	13	5	4	22	6

6. [× Whole Numbers]

	4	8	9	2	10
× 8	32	64	72	16	80

7. [÷ Whole Numbers]

$$3 \div 1 = \boxed{3}$$

8. [Word Problems]

A ground squirrel whose usual temperature is 38°C has a hibernation temperature of 4°C . How many degrees less is the squirrel's hibernation temperature than its usual temperature?

[Write the number sentence.]

$$\boxed{38 - 4 = 34} \text{ } ^{\circ}\text{C}$$

9. [Fractions]

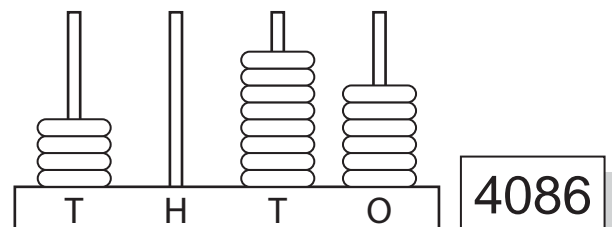
Draw lines to divide the sign into thirds.



OR similar

10. [Place Value]

Write the numeral.






11. [Word Numbers]

Write in numerals:

forty-five

 $\boxed{45}$

12. [Money]
Which note has the greatest value?

- A) 
- B) 
- C) 

C

17. [Location]
Draw a person above the trampoline.



18. [Statistics / Probability]
Complete the tally table. How many vowels are in our longest word? **'Floccinaucinihilipilification'**

Vowel	Tally	Number
o		2
i	IIII	9
a		2
u	I	1

14

13. [Number Patterns]

30 , 35 , 40 , 45 , **50 , 55**

14. [Time]
How many week days in September 2021?

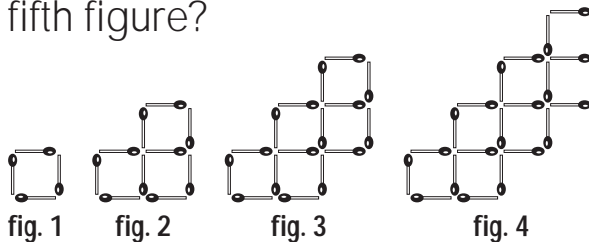
SEPTEMBER - 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
Sun 5	Mon 6	Tue 7	Wed 8	Thu 9	Fri 10	Sat 11
Sun 12	Mon 13	Tue 14	Wed 15	Thu 16	Fri 17	Sat 18
Sun 19	Mon 20	Tue 21	Wed 22	Thu 23	Fri 24	Sat 25
Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri	Sat

22

19. [Problem Solving 1] *
Which number is halfway between 2 and 20?

11

20. [Problem Solving 2] *
If you continue the pattern, how many matchsticks would be in the fifth figure?



28

15. [Measuring]
How much deeper is the Grand Canyon than Fish River Canyon?

- A) Fish River Canyon (Namibia) 550 metres
- B) Grand Canyon (USA) 1600 metres

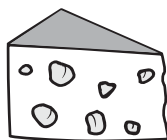
1050 m

21. [Problem Solving 3] *
The Ravens had 5 wins, 1 draw, 2 losses and 1 bye. How many points did they score?

football result	points
win	4
draw	2
loss	0
bye	0

22

16. [Shapes]
What shape is this object?



triangular prism

1. [Counting]

Count backwards from 283.

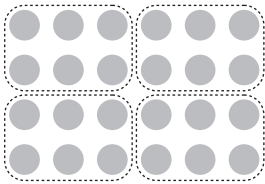
283	282	281	280	279
-----	-----	-----	-----	-----

2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$8 + \textcircled{7} + 8 + \textcircled{3} = 26$$

3. [Multiplication / Division]



24 divided into 4 groups =

$$24 \div 4 = 6$$

4. [+ Whole Numbers]

	14	7	16	13	5
+ 7	21	14	23	20	12

5. [- Whole Numbers]

	13	26	15	8	12
- 3	10	23	12	5	9

6. [x Whole Numbers]

	7	12	9	3	5
x 8	56	48	72	24	40

7. [÷ Whole Numbers]

$$90 \div 10 = 9$$

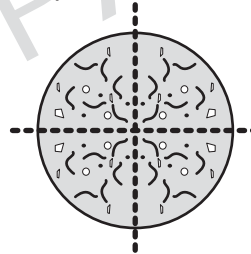
8. [Word Problems]

In the 2012 Olympics men's Marathon, 85 men finished the race and 20 did not finish. How many men started the marathon? [Write the number sentence.]

$$85 + 20 = 105$$

9. [Fractions]

Draw lines to divide the pizza into quarters.



10. [Place Value]

Write the numeral.




T	H	T	O	3204

11. [Word Numbers]

Write in numerals:
twenty-one

$$21$$

12. [Money]
Which note has the greatest value?

- A) 
- B) 
- C) 

B

13. [Number Patterns]
1, 4, 7, 10, 13, 16, 19

14. [Time]
What is the date of the fourth Thursday in October 2021?

OCTOBER - 2021													
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
							1	2					
Sun 3	Mon 4	Tue 5	Wed 6	Thu 7	Fri 8	Sat 9							
Sun 10	Mon 11	Tue 12	Wed 13	Thu 14	Fri 15	Sat 16							
Sun 17	Mon 18	Tue 19	Wed 20	Thu 21	Fri 22	Sat 23							
Sun 24	Mon 25	Tue 26	Wed 27	Thu 28	Fri 29	Sat 30							
Sun 31	Mon	Tue	Wed	Thu	Fri	Sat							

28 October 2021

OR 28/10/2021

15. [Measuring]
How much longer is the Clarence River than the Rangitata River?

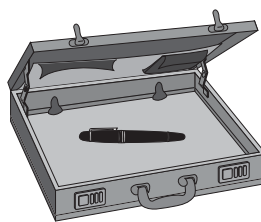
- A) Clarence River (Nth Island)
209 kilometres
- B) Rangitata River (Sth Island)
120 kilometres

89 km

16. [Shapes]
Circle the rectangular prism.



17. [Location]
Draw a pen inside the briefcase.



18. [Statistics / Probability]
Complete the tally table for the Olympic medals won by the USA:
gold - 9, silver - 15, bronze - 13

Winter Olympics - Vancouver 2010

USA Medals	Tally
gold	
silver	
bronze	

19. [Problem Solving 1]
Which number is halfway between 1 and 19?

10

20. [Problem Solving 2]
If you continue the pattern, how many matchsticks would be in the sixth figure?

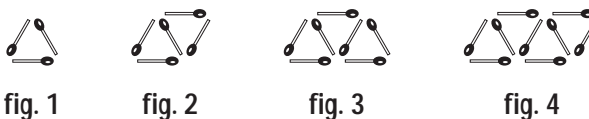


fig. 1 fig. 2 fig. 3 fig. 4

13

21. [Problem Solving 3]
Last season the Jets won 3 matches and drew 2 matches. How many points did they earn for the season?

soccer matches	points
win	3
draw	1
loss	0

11

1. [Counting]

Count backwards from 262.

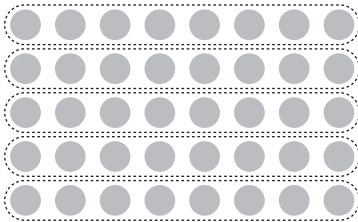
262	261	260	259	258
-----	-----	-----	-----	-----

2. [Addition / Subtraction]

Circle the numbers that make 10, then add.

$$6 + 9 + \textcircled{8} + \textcircled{2} = 25$$

3. [Multiplication / Division]



40 divided into 5 groups =

$$40 \div 5 = 8$$

4. [+ Whole Numbers]

	15	8	12	4	17
+ 7	22	15	19	11	24

5. [- Whole Numbers]

	10	4	25	7	11
- 3	7	1	22	4	8

6. [x Whole Numbers]

	5	11	9	4	6
x 8	40	88	72	32	48

7. [÷ Whole Numbers]

$$40 \div 10 = 4$$

8. [Word Problems]

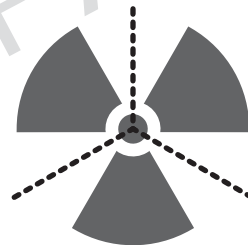
In the 2012 Olympics women's Marathon, 107 women finished the race and 11 did not finish. How many women started the marathon?

[Write the number sentence.]

$$107 + 11 = 118$$

9. [Fractions]

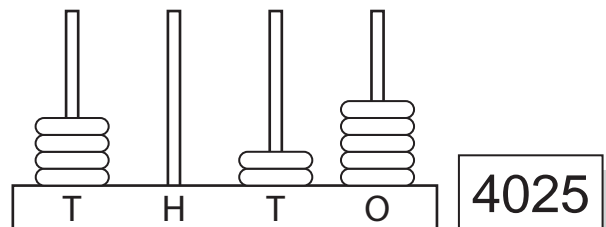
Draw lines to divide this radioactive symbol into thirds.



OR similar

10. [Place Value]

Write the numeral.






4025

11. [Word Numbers]

Write in numerals:
eighty-seven

87

12. [Money]
Which note has the least value?

- A) 
- B) 
- C) 

C

17. [Location]
Draw a pair of drumsticks above the drum.



13. [Number Patterns]

5, 8, 11, 14, 17, **20, 23**

14. [Time]
What is the date of the fifth Saturday in July 2021?

JULY - 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

31 July 2021

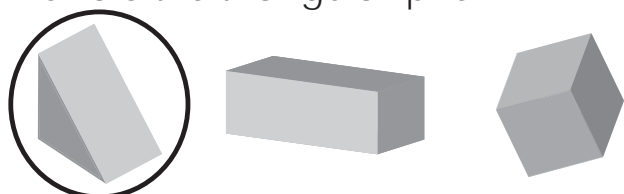
OR 31/7/2021

15. [Measuring]
How much longer is the Whanganui River than the Oreti River?

- A) Whanganui River (Nth Island) 290 kilometres
- B) Oreti River (Sth Island) 203 kilometres

87 km

16. [Shapes]
Circle the triangular prism.



18. [Statistics / Probability]
Complete the tally table for the Olympic medals won by Norway:
gold - 9, silver - 8, bronze - 6

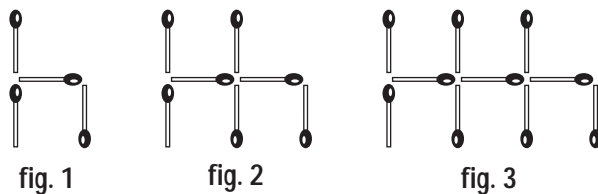
Winter Olympics - Vancouver 2010

Norway Medals	Tally
gold	
silver	
bronze	

19. [Problem Solving 1]
Which number is halfway between 4 and 20?

12

20. [Problem Solving 2]
If you continue the pattern, how many matchsticks would be in the fifth figure?



16

21. [Problem Solving 3]
Mia answered 5 questions correct and had 1 question she did not try. How many points did she score?

quiz answers	points
correct	5
no answer	1
incorrect	0

26

1.1

- 19. Hint:** Draw a number line. How many units are between 3 and 25 on the number line?

Solution:

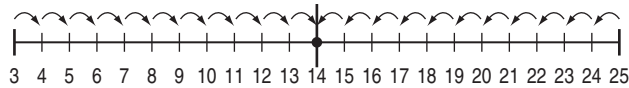
$$25 - 3 = 22$$

There are 22 units between 25 and 3.

So there are 22 units to divide, half each.

Half of 22 is 11.

$$3 + 11 = 14 \quad \text{OR} \quad 25 - 11 = 14$$



14 is halfway between 3 and 25.

- 20. Hint:** How many squares in each figure? Look for a pattern.

Solution: There is one square in figure 1, two squares in figure 2 and three squares in figure 3. It follows that there would be four squares in figure 4 and five squares in figure 5.

A diagram would look like this:

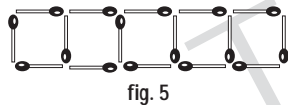


fig. 5

You can count the matchsticks or look for a pattern. The first square has 4 matchsticks. Adding the second square needs 3 more matchsticks. Adding the third square needs 3 more matchsticks. The pattern is: Adding any square after the first needs 3 extra matchsticks.

$$4 + 3 + 3 + 3 + 3 = 16 \text{ matchsticks.}$$

There would be **16** matchsticks in the fifth figure.

- 21. Hint:** Check the number of points for each result.

Solution: An outright win gains **6** points.

A 1st innings win gains 2 points.

Two first innings wins would be twice this.

$$2 + 2 = 4 \text{ points}$$

So Ricky's team has $6 + 4 = 10$ points in total.

They are on **10** points.

1.2

- 19. Hint:** Draw a number line. How many units are between 6 and 30 on the number line?

Solution:

$$30 - 6 = 24$$

There are 24 units between 30 and 6.

So there are 24 units to divide, half each.

Half of 24 is 12.

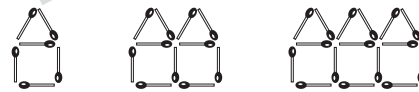
$$6 + 12 = 18 \quad \text{OR} \quad 30 - 12 = 18$$



18 is halfway between 6 and 30.

- 20. Hint:** How many matchsticks in each house? Draw a table to list the results. Look for a pattern.

Solution:



The first house has 6 matchsticks. Adding the second house needs only 5 more matchsticks.

In fact adding any house after the first needs 5 extra matchsticks.

A table would look like this:

Houses	1	2	3	4	5	6
Matchsticks	6	11	16	21	26	31
		+5	+5	+5	+5	+5

It would take **31** matchsticks to make a row of 6 houses.

- 21. Hint:** Check the number of points for each score.

Solution: A touchdown scores 6 points.

Three touchdowns would score 3 lots of 6 points.

$$6 + 6 + 6 = 18 \text{ points}$$

A field goal scores **3** points.

So Todd's team has $18 + 3 = 21$ points in total.

Todd's team scored **21** points.

1.3

19. Hint: Draw a number line. How many units are between 5 and 31 on the number line?

Solution:

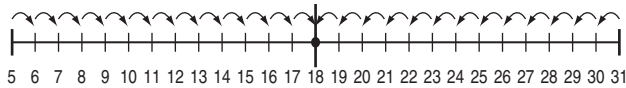
$$31 - 5 = 26$$

There are 26 units between 31 and 5.

So there are 26 units to divide, half each.

Half of 26 is 13.

$$5 + 13 = 18 \text{ OR } 31 - 13 = 18$$



18 is halfway between 5 and 31.

1.4

3.1 1.3 - 1.4

19. Hint: Draw a number line. How many units are between 2 and 20 on the number line?

Solution:

$$20 - 2 = 18$$

There are 18 units between 20 and 2.

So there are 18 units to divide, half each.

Half of 18 is 9.

$$2 + 9 = 11 \text{ OR } 20 - 9 = 11$$

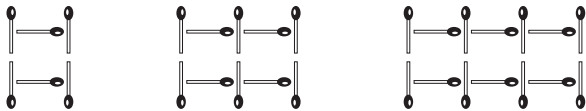


11 is halfway between 2 and 20.

20. Hint: How many matchsticks in each section?

Draw a table to list the results. Look for a pattern.

Solution:



The first section has 6 matchsticks. Adding the second section needs only 4 more matchsticks.

In fact adding any section after the first needs 4 extra matchsticks.

A table would look like this:

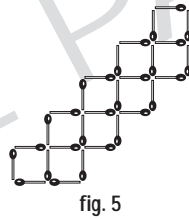
Sections	1	2	3	4	5	6	7	8
Matchsticks	6	10	14	18	22	26	30	34
		+4	+4	+4	+4	+4	+4	+4

It would take **34** matchsticks to make an 8-section fence.

20. Hint: How many squares in each figure? Look for a pattern.

Solution: There is one square in figure 1, three squares in figure 2, five squares in figure 3 and seven squares in figure 4. It follows that there would be nine squares in figure 5.

A diagram would look like this:



You can count the matchsticks or look for a pattern. Figure 1 has 1 square and 4 matchsticks.

Figure 2 has 2 more squares and needs 6 more matchsticks.

Adding 2 more squares, to move from figure 2 to figure 3, also needs 6 more matchsticks.

The pattern is: Adding any 2 more squares needs 6 extra matchsticks.

$$4 + 6 + 6 + 6 + 6 = 28 \text{ matchsticks.}$$

There would be **28** matchsticks in the fifth figure.

21. Hint: Check the number of points for each result.

Solution: A goal inside the 3-point line scores 2 points. Four goals from there would be four lots of this.

$$2 + 2 + 2 + 2 = 8 \text{ points}$$

A goal outside the 3-point line scores 3 points. Two goals from there would be two lots of this.

$$3 + 3 = 6 \text{ points}$$

So Marian's team has $8 + 6 = 14$ points in total.

Marian scored **14** points.

21. Hint: Check the number of points for each result.

Solution: A win gains 4 points. Five wins would be five lots of this.

$$4 + 4 + 4 + 4 + 4 = 20 \text{ points}$$

A draw gains 2 points.

Losses and byes gain no points.

So the Ravens have $20 + 2 = 22$ points in total.

The Ravens scored **22** points.

Skill 2.7 Adding numbers by using base 10 blocks (1).

MM2.2 1 1 2 2 3 4 4
MM3.1 1 1 2 2 3 3 4 4

- Write the total number of 10×10 blocks in the hundreds place.
- Write the total number of 1×10 blocks in the tens place.
- Write the total number of minis in the ones place.

Q. Complete the addition.

$400 + 20 + 8 = \square$

A. $400 + 20 + 8 = 428$

4 Hundreds
2 Tens
8 Ones

a) Complete the addition.

$13 + 16 = \square$

b) Complete the addition.

$52 + 5 = \square$

c) Complete the addition.

$7 + 15 = \square$

d) Complete the addition.

$20 + 36 = \square$

e) Complete the addition.

$80 + 7 = \square$

f) Complete the addition.

$60 + 9 = \square$

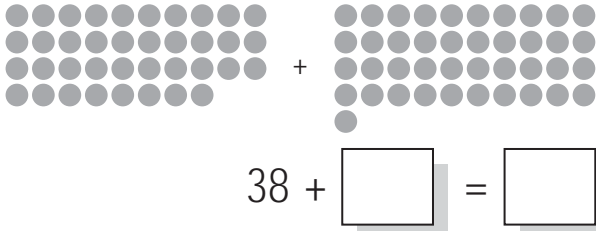
Skill 2.8 Completing addition number sentences by using base 10 representation.

 MM2.2 1 1 2 2 3 3 4 4
 MM3.1 1 1 2 2 3 3 4 4

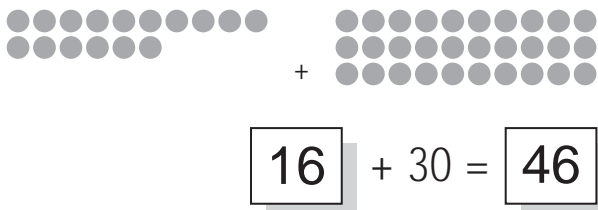
- Count by 10s the number of dots on each side of the number sentence.
- Add the totals.

Q. Complete the number sentence.

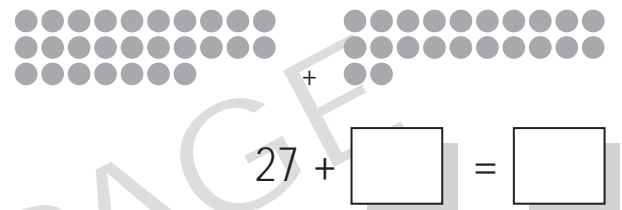
A. $38 + 41 = 79$



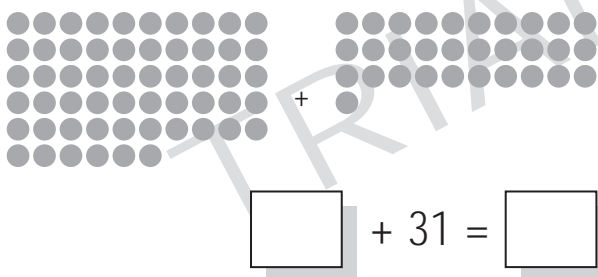
a) Complete the number sentence.



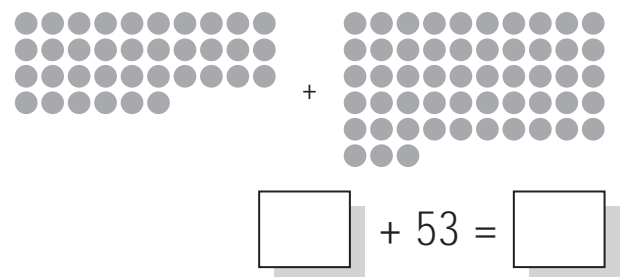
b) Complete the number sentence.



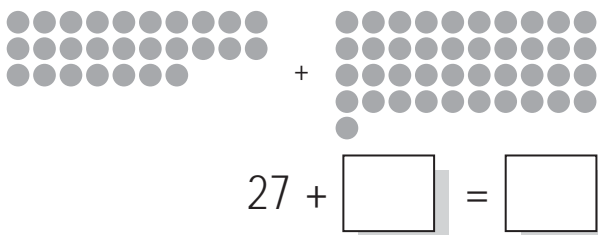
c) Complete the number sentence.



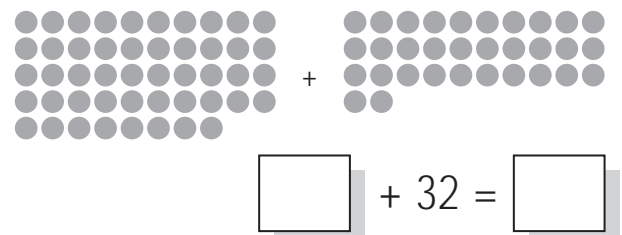
d) Complete the number sentence.



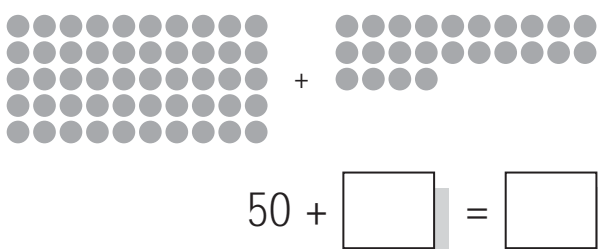
e) Complete the number sentence.



f) Complete the number sentence.



g) Complete the number sentence.



h) Complete the number sentence.

