

second edition

MATHS MATE



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 & I. Tutos

HOW TO USE MATHS MATE

- Students complete the **Maths Mate sheet**.
Parents sign the work.

MATHS MATE
Term 1 - Sheet 1

Name: _____
Date: _____
Parent's Signature: _____

page 3

page 4

- Students correct their work in class. Students colour the boxes to record their correct answers.

- The student **record keeping sheets** are completed. Students can transfer their results directly from the worksheet to the results sheet.

- Students identify the appropriate Skill Builder as listed on the record keeping sheet.

MATHS MATE
Name: Paul Wright
Class: 8B
Teacher: Miss Bourke

Worksheet Results

Term 1

1. [Whole Numbers to 10] 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0

2. [Whole Numbers to 10] 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0

3. [Whole Numbers to 12] 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0

4. [Large Number \times -] 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0

5. [Large Number \div -] 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0

6. [Large Number \times -] 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0

7. [Decimal \div -] 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0

8. [Decimal \times -] 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0

9. [Fraction \div -] 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 10.0

10. [Fraction \times -] 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0

11. [Percentages] 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0

12. [Decimals / Fractions / Percentages] 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0

13. [Integers] 13.1 13.2 13.3 13.4 13.5 13.6 13.7 13.8 13.9 14.0

14. [Ratios / Fractions] 14.1 14.2 14.3 14.4 14.5 14.6 14.7 14.8 14.9 15.0

15. [Indices / Square Roots] 15.1 15.2 15.3 15.4 15.5 15.6 15.7 15.8 15.9 16.0

16. [Order of Operations] 16.1 16.2 16.3 16.4 16.5 16.6 16.7 16.8 16.9 17.0

17. [Exploring Numbers] 17.1 17.2 17.3 17.4 17.5 17.6 17.7 17.8 17.9 18.0

18. [Multiples / Factors / Primes] 18.1 18.2 18.3 18.4 18.5 18.6 18.7 18.8 18.9 19.0

19. [Number Patterns] 19.1 19.2 19.3 19.4 19.5 19.6 19.7 19.8 19.9 20.0

20. [Expressions] 20.1 20.2 20.3 20.4 20.5 20.6 20.7 20.8 20.9 21.0

21. [Substitution] 21.1 21.2 21.3 21.4 21.5 21.6 21.7 21.8 21.9 22.0

22. [Equations] 22.1 22.2 22.3 22.4 22.5 22.6 22.7 22.8 22.9 23.0

23. [Coordinates] 23.1 23.2 23.3 23.4 23.5 23.6 23.7 23.8 23.9 24.0

24. [Units of Measurement / Time] 24.1 24.2 24.3 24.4 24.5 24.6 24.7 24.8 24.9 25.0

25. [Perimeter] 25.1 25.2 25.3 25.4 25.5 25.6 25.7 25.8 25.9 26.0

26. [Area / Volume] 26.1 26.2 26.3 26.4 26.5 26.6 26.7 26.8 26.9 27.0

27. [Shapes] 27.1 27.2 27.3 27.4 27.5 27.6 27.7 27.8 27.9 28.0

28. [Location / Transformation] 28.1 28.2 28.3 28.4 28.5 28.6 28.7 28.8 28.9 29.0

29. [Statistics] 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9 30.0

30. [Probability] 30.1 30.2 30.3 30.4 30.5 30.6 30.7 30.8 30.9 31.0

31. [Problem Solving 1] 31.1 31.2 31.3 31.4 31.5 31.6 31.7 31.8 31.9 32.0

32. [Problem Solving 2] 32.1 32.2 32.3 32.4 32.5 32.6 32.7 32.8 32.9 33.0

33. [Problem Solving 3] 33.1 33.2 33.3 33.4 33.5 33.6 33.7 33.8 33.9 34.0

Total Correct: 26 24 22 20

page 1

© Maths Mate Blue - Record Keeping Sheets

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

8. decimal \times, \div
Skill 8: Multiplying a whole number by a decimal number (\times, \div)

Blue 1 2 3 4 4
Green 1 2 3 3 4 4

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

$\begin{array}{r} 0.62 \\ \times 4 \\ \hline 2.48 \end{array}$ $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$ $\begin{array}{r} 24 \\ \times 2 \\ \hline 48 \end{array}$

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) $0.7 \times 5 =$

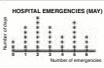
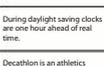
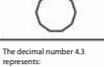
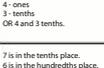
d) $0.4 \times 6 =$ e) $0.3 \times 7 =$ f) $0.6 \times 9 =$

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

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

page 33 © Maths Mate Blue/Green Skill Builder 8

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

cylinder	• A solid with two parallel circular bases of the same size.		pp. 7-10
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 - hundredths 0 - thousandths	7 is in the tenths place. 6 is in the hundredths place. 5 is in the thousandths place.
decimal point (.)	• A point that separates the units and tenths in a decimal number.		
decrease	• To make smaller.		
deduct	• To take away.		

page 334 © Maths Mate Blue/Green Skill Builder Glossary

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

MATHS MATE
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] $\div 10$ Name: _____

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

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

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

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

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

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

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: $9 \times 9 \times 9 \times 9 =$ $\times 6 = 14$

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

23. [Coordinates] 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?

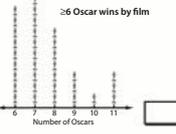
24. [Units of Measurement / Time] 6 hours = minutes

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. [Statistics] 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.
 $\begin{array}{r} \square 42 \\ + \square \square 5 \\ \hline \end{array}$

page 2

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



Name:

Class:

Teacher:

Worksheet Results

Term 1

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 & SPACE

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

Sheet 1
Sheet 2
Sheet 3
Sheet 4
Skill Builder links

1	1	1	1	1.1
2	2	2	2	2.1,11
3	3	3	3	3.1,10
4	4	4	4	4.1
5	5	5	5	5.1
6	6	6	6	6.1
7	7	7	7	7.1
8	8	8	8	8.1
9	9	9	9	9.1
10	10	10	10	10.1
11	11	11	11	11.1
12	12	12	12	12.1
13	13	13	13	13.1
14	14	14	14	14.1
15	15	15	15	15.1
16	16	16	16	16.1
17	17	17	17	17.1
18	18	18	18	18.1
19	19	19	19	Hints & Solutions
20	20	20	20	Hints & Solutions
21	21	21	21	Hints & Solutions

Sheet 5
Sheet 6
Sheet 7
Sheet 8
Skill Builder links

1	1	1	1	1.2,3
2	2	2	2	2.2,3
3	3	3	3	3.2,11
4	4	4	4	4.2,3,4,5,6
5	5	5	5	5.2,3,4,5,6
6	6	6	6	6.2,5
7	7	7	7	7.2
8	8	8	8	8.2
9	9	9	9	9.2,3
10	10	10	10	10.2
11	11	11	11	11.2
12	12	12	12	12.2
13	13	13	13	13.2
14	14	14	14	14.2
15	15	15	15	15.2,3
16	16	16	16	16.2
17	17	17	17	17.2,3
18	18	18	18	18.2
19	19	19	19	Hints & Solutions
20	20	20	20	Hints & Solutions
21	21	21	21	Hints & Solutions

MATHS MATE

Term 1 - Sheet 1



Name:

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

Parent's Signature:

1. [Counting]
How many balloons are there?



6. [× Whole Numbers]
9 multiplied by 2 is

2. [Addition / Subtraction]
Complete the addition.


 $6 + 5 = \square$

7. [+ Whole Numbers]
20 shared between 5 is

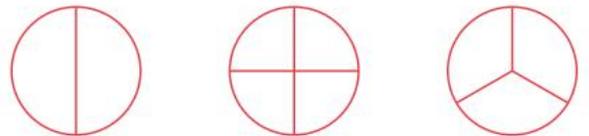
8. [Word Problems]
In the wild a lion sleeps for about 13 hours each day. A koala sleeps 9 hours more each day. For how many hours each day does a koala sleep?
[Write the number sentence.]

 = h

3. [Multiplication / Division]
How many groups of 5 books?



9. [Fractions]
Circle the picture that shows thirds.



4. [+ Whole Numbers]
6 add on 4 is

10. [Place Value]


7 tens 9 ones =

5. [- Whole Numbers]
19 subtract 6 makes

11. [Word Numbers]
Write in numerals:
sixteen

12. [Money]
What is the value of the coin?



cents

13. [Number Patterns]

2, 4, 6, 8, 10,

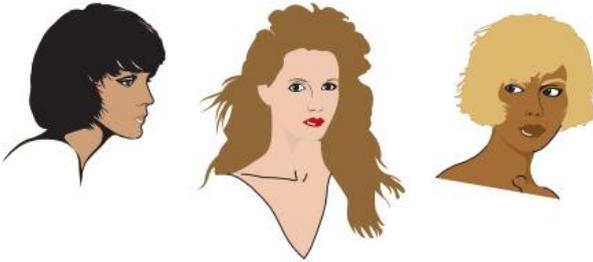
,

14. [Time]

Which day comes after Wednesday?

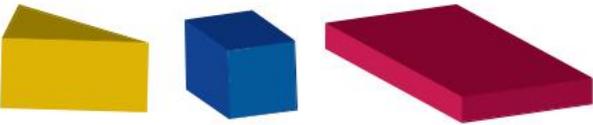
15. [Measuring]

Circle the girl with the longest hair.



16. [Shapes]

Circle the triangular prism.



17. [Location]

Is the witch flying 'in front of' or 'behind' the moon?



18. [Statistics / Probability]

How many moons does Mars have?

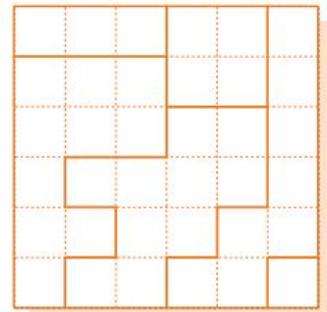
Number of moons

Earth	Mars	Pluto	Venus

Key: = 1 moon

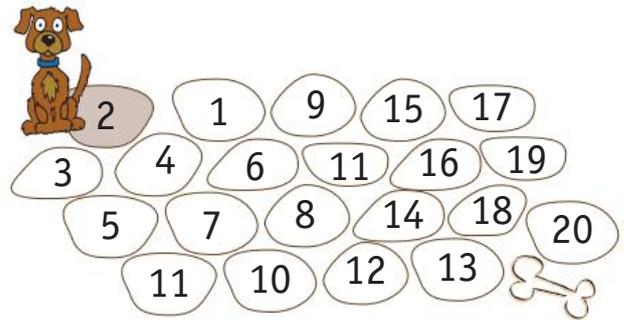
19. [Problem Solving 1]

Find and colour this shape inside the grid.



20. [Problem Solving 2]

Start at 2. Colour the path to the bone by counting by 2s.



21. [Problem Solving 3]

Draw 2 more straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]



MATHS MATE

Term 1 - Sheet 2



Name:

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

Parent's Signature:

1. [Counting]

How many butterflies are there?



6. [× Whole Numbers]

9 lots of 5 are

2. [Addition / Subtraction]

Complete the addition.



$$\square + \square = \square$$

8. [Word Problems]

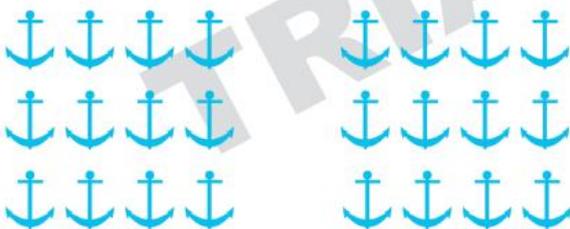
The first mandarin that Frankie ate had 8 pips, but the second only had 4 pips. How many pips in total?

[Write the number sentence.]

 =

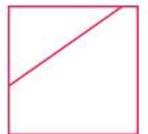
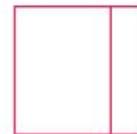
3. [Multiplication / Division]

How many groups of 4 anchors?



9. [Fractions]

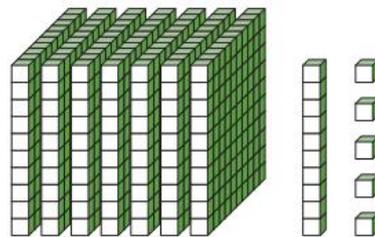
Circle the picture that shows halves.



4. [+ Whole Numbers]

The sum of 8 and 7 is

10. [Place Value]



7 hundreds 1 ten 5 ones =

5. [- Whole Numbers]

140 minus 10 equals

11. [Word Numbers]

Write in numerals:
thirty-four

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



13. [Number Patterns]
7, 9, 11, 13, 15, ,

14. [Time]
Which day comes before Sunday?

15. [Measuring]
Which stick is the shortest?
A) 
B) 
C) 

16. [Shapes]
Circle the cylinder.
  

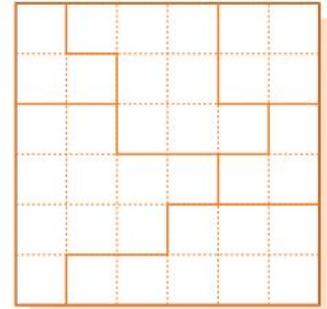
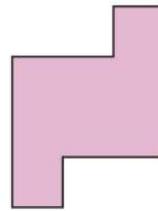
17. [Location]
Is the gift 'on' or 'under' the tree?


18. [Statistics / Probability]
How much is the loaf of bread?

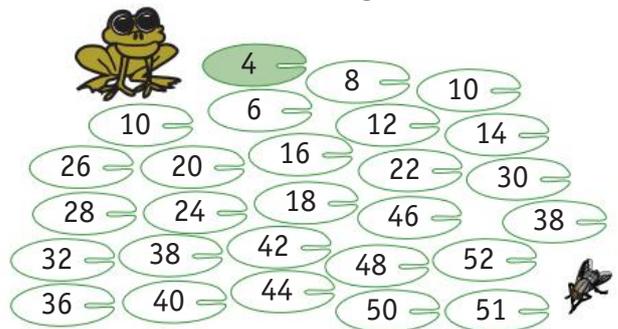
Cost of everyday items

\$	\$ \$ \$ \$	\$ \$ \$	\$ \$ \$
			
Each \$ = 1 dollar		<input type="text"/> dollars	

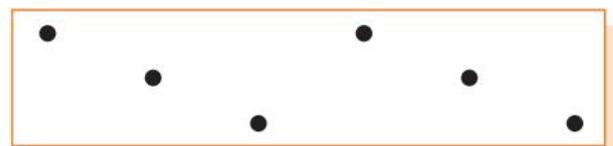
19. [Problem Solving 1]
Find and colour this shape inside the grid.



20. [Problem Solving 2]
Start at 4. Colour the lily pad path to the fly by counting by 4s.



21. [Problem Solving 3]
Draw 3 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]



MATHS MATE

Term 1 - Sheet 3



Name:

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

Parent's Signature:

1. [Counting]

How many ghosts are there?



2. [Addition / Subtraction]

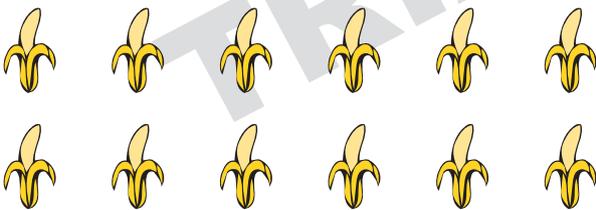
Take away 6.



$$10 - 6 = \boxed{}$$

3. [Multiplication / Division]

Circle to divide 12 bananas into 4 equal groups. How many in each group?



4. [+ Whole Numbers]

The total of 9 and 3 is

5. [- Whole Numbers]

The difference between 23 and 8 is

6. [× Whole Numbers]

7 times 3 is

7. [+ Whole Numbers]

How many 4s in 32?

8. [Word Problems]

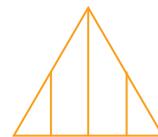
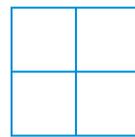
The annual average maximum temperature in the USA is 17°C and in India is 14°C higher. What is the annual average maximum temperature in India?

[Write the number sentence.]

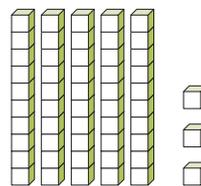
 = °C

9. [Fractions]

Circle the pictures that show quarters.



10. [Place Value]



tens ones =

11. [Word Numbers]

Write in numerals:
seventy-nine

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



13. [Number Patterns]
2, 5, 8, 11, 14, ,

14. [Time]
Yesterday was Monday. What day is today?

15. [Measuring]
Which person is likely to be the shortest?
A) teenager
B) man
C) baby

16. [Shapes]
What shape is this object?

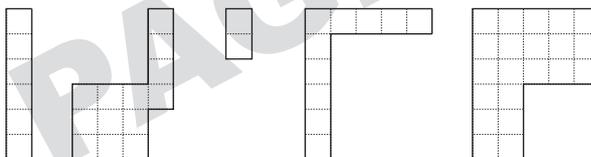

17. [Location]
Is the bird 'above' or 'below' the scarecrow?


18. [Statistics / Probability]
How many toes does a pig have on each foot?

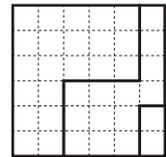
Hoofed animals - Number of toes on a foot

			
horse	hippo	rhinoceros	pig

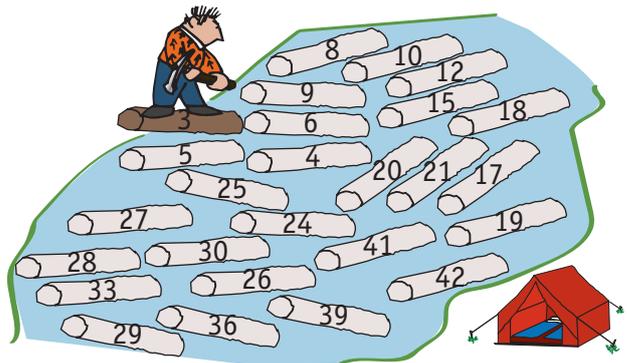
Key:  = 1 toe

19. [Problem Solving 1]

1 2 3 4 5

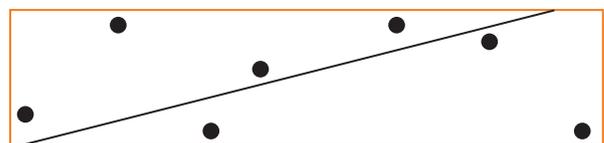
Which shapes were used to complete the square?


 , and

20. [Problem Solving 2]
Start at 3. Colour the log path across the river by counting by 3s.



21. [Problem Solving 3]
Draw 2 more straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]



MATHS MATE

Term 1 - Sheet 4



Name:

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

Parent's Signature:

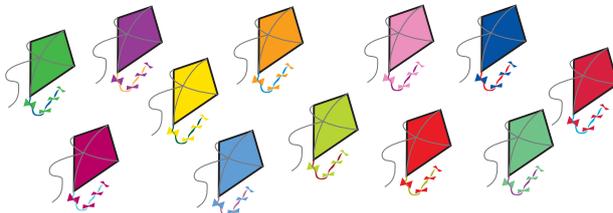
1. [Counting]

How many fish are there?



2. [Addition / Subtraction]

Take away 7.



$$\square - \square = \square$$

3. [Multiplication / Division]

Circle to divide 15 dolphins into 3 equal groups. How many in each group?



4. [+ Whole Numbers]

7 and 9 together make

5. [- Whole Numbers]

34 take away 7 is

6. [× Whole Numbers]

4 groups of 5 are

7. [÷ Whole Numbers]

21 shared between 3 is

8. [Word Problems]

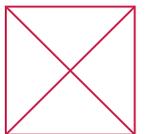
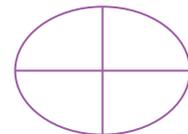
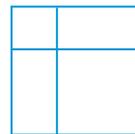
The maximum capacity of a Boeing 787 is 290 passengers. The maximum capacity of an Airbus A380 is 850 passengers. What is their combined maximum capacity?

[Write the number sentence.]

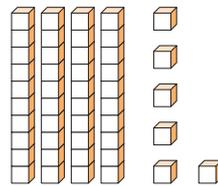
$$\square = \square$$

9. [Fractions]

Circle the pictures that show quarters.



10. [Place Value]



$$\square \text{ tens } \square \text{ ones} = \square$$

11. [Word Numbers]

Write in numerals:
ninety-eight

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



13. [Number Patterns]
5, 15, 25, 35, 45, ,

14. [Time]
Today is Wednesday. What day was it a week ago?

15. [Measuring]
Which is likely to be the longest?
A) long jump pit
B) soccer field
C) lap pool

16. [Shapes]
What shape is this object?



17. [Location]
Is most of Santa 'inside' or 'outside' the chimney?

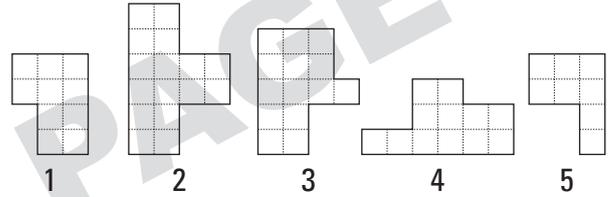


18. [Statistics / Probability]
How many more gold medals than silver medals did Hungary win in the 2016 Olympics?

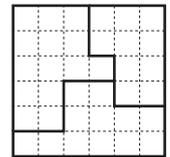
2016 Olympics - Hungary



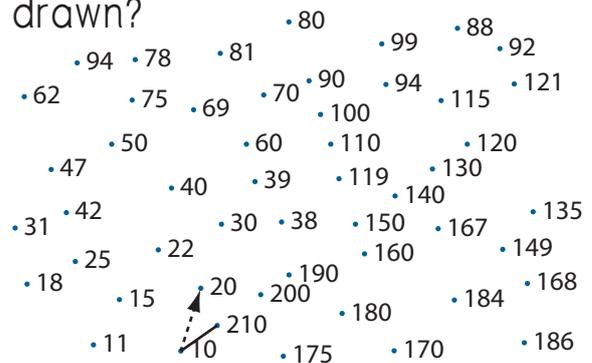
19. [Problem Solving 1]



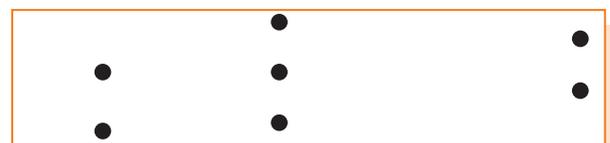
Which shapes were used to complete the square?


 , and

20. [Problem Solving 2]
Start at 10. Connect the dots by counting by 10s. What have you drawn?



21. [Problem Solving 3]
Draw 3 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]





Name:

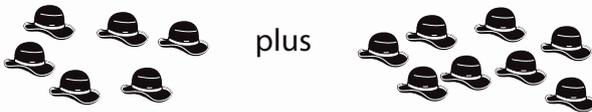
1. [Counting]

How many candles are there?



2. [Addition / Subtraction]

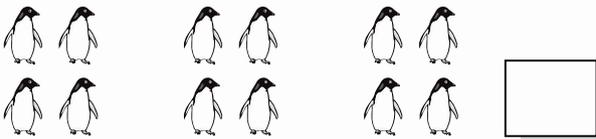
Complete the addition.



$$\square + \square = \square$$

3. [Multiplication / Division]

How many groups of 4 penguins?



4. [+ Whole Numbers]

The sum of 9 and 5 equals

5. [- Whole Numbers]

21 take away 5 equals

6. [× Whole Numbers]

6 times 3 is

7. [÷ Whole Numbers]

How many 2s in 16?

8. [Word Problems]

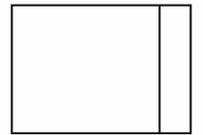
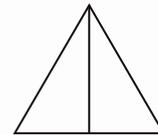
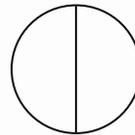
The annual average maximum temperature in China is 13°C and in Australia is 15°C higher. What is the annual average maximum temperature in Australia?

[Write the number sentence.]

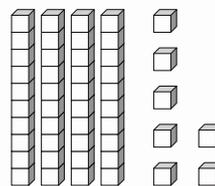
$$\square = \square \text{ } ^\circ\text{C}$$

9. [Fractions]

Circle the pictures that show halves.



10. [Place Value]



$$\square \text{ tens } \square \text{ ones} = \square$$

11. [Word Numbers]

Write in numerals:

fifty-two

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



13. [Number Patterns]
5, 7, 9, 11, 13, ,

14. [Time]
Yesterday was Thursday. What day is today?

15. [Measuring]
Which Christmas tree is the shortest?
A) B) C)

16. [Shapes]
Circle the cube.

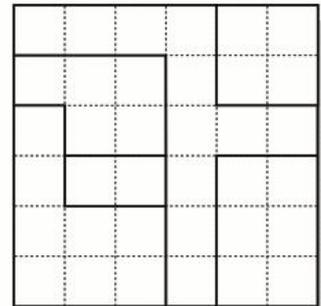
17. [Location]
Is most of the rubbish 'inside' or 'outside' the bin?

18. [Statistics / Probability]
How many toes does a giraffe have on each foot?
Hoofed animals - Number of toes on a foot

donkey	giraffe	antelope	sloth

Key: = 1 toe

19. [Problem Solving 1]
Find and colour this shape inside the grid.



20. [Problem Solving 2]
Start at 3. Connect the dots by counting by 3s. What have you drawn?

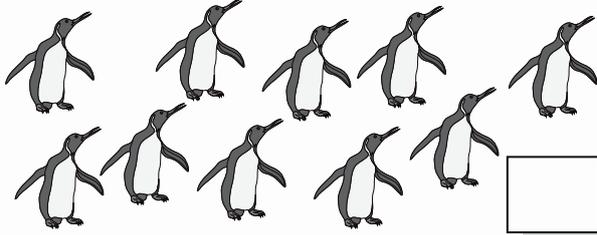
21. [Problem Solving 3]
Draw 2 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]



Name:

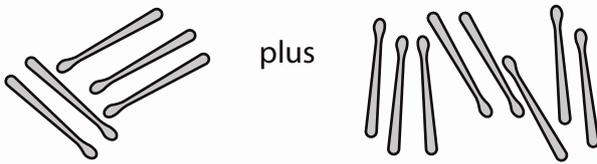
1. [Counting]

How many penguins are there?



2. [Addition / Subtraction]

Complete the addition.



$$\boxed{} + \boxed{} = \boxed{}$$

3. [Multiplication / Division]

How many groups of 4 hearts?



4. [+ Whole Numbers]

The sum of 8 and 4 equals

5. [- Whole Numbers]

27 take away 9 equals

6. [× Whole Numbers]

7 times 2 is

7. [÷ Whole Numbers]

How many 3s in 27?

8. [Word Problems]

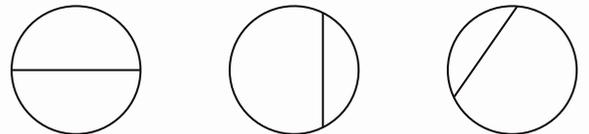
The annual average maximum temperature in Germany is 12°C and in Niger is 23°C higher. What is the annual average maximum temperature in Niger?

[Write the number sentence.]

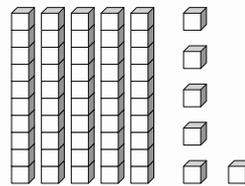
 = °C

9. [Fractions]

Circle the picture that shows halves.



10. [Place Value]



$$\boxed{} \text{ tens } \boxed{} \text{ ones } = \boxed{}$$

11. [Word Numbers]

Write in numerals:
sixty-five

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



13. [Number Patterns]
6, 8, 10, 12, 14, ,

14. [Time]
Yesterday was Friday. What day is today?

15. [Measuring]
Which musical instrument is the shortest?
- A)
- B)
- C)
-

16. [Shapes]
Circle the cone.
-

17. [Location]
Is the sponge 'inside' or 'outside' the bucket?
-
-

18. [Statistics / Probability]
How much is the bunch of celery?

Cost of groceries

	\$		
\$	\$	\$	\$
\$	\$	\$	\$
Each \$ = 1 dollar		dollars	

19. [Problem Solving 1]
Find and colour this shape inside the grid.
-

20. [Problem Solving 2]
Start at 2. Colour the flower path to the greenhouse by counting by 2s.
-

21. [Problem Solving 3]
Draw 2 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]
-

MATHS MATE

Term 1 - Sheet 1



Name:

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

Parent's Signature:

1. [Counting]

How many balloons are there?



7

6. [× Whole Numbers]

9 multiplied by 2 is

18

7. [+ Whole Numbers]

20 shared between 5 is

4

2. [Addition / Subtraction]

Complete the addition.



6 + 5 = 11

8. [Word Problems]

In the wild a lion sleeps for about 13 hours each day. A koala sleeps 9 hours more each day. For how many hours each day does a koala sleep?

[Write the number sentence.]

13 + 9 = 22 h

3. [Multiplication / Division]

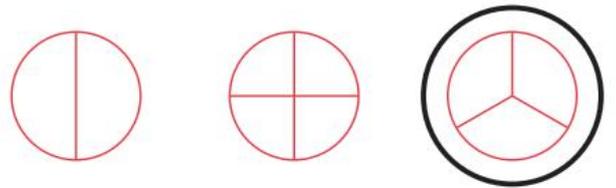
How many groups of 5 books?



5

9. [Fractions]

Circle the picture that shows thirds.

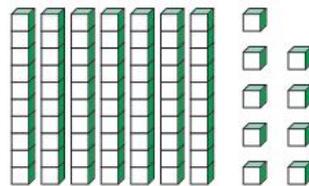


4. [+ Whole Numbers]

6 add on 4 is

10

10. [Place Value]



7 tens 9 ones = 79

5. [- Whole Numbers]

19 subtract 6 makes

13

11. [Word Numbers]

Write in numerals:
sixteen

16

12. [Money]
What is the value of the coin?



50 cents

13. [Number Patterns]

2, 4, 6, 8, 10, 12, 14

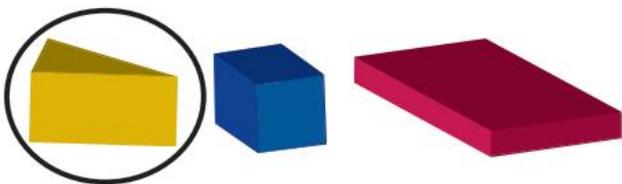
14. [Time]
Which day comes after Wednesday?

Thursday

15. [Measuring]
Circle the girl with the longest hair.



16. [Shapes]
Circle the triangular prism.



17. [Location]
Is the witch flying 'in front of' or 'behind' the moon?



behind

18. [Statistics / Probability]
How many moons does Mars have?

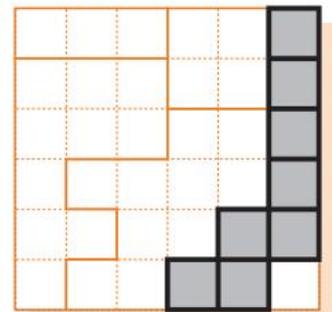
Number of moons

Earth	Mars	Pluto	Venus

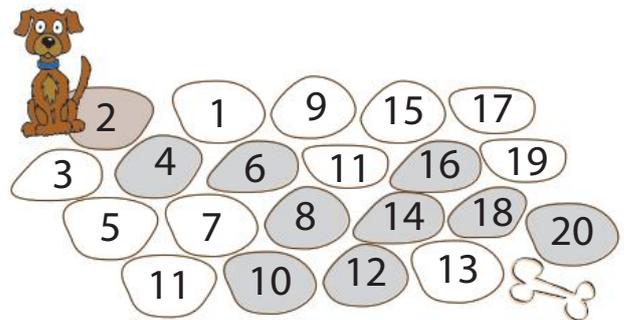
Key: = 1 moon

2

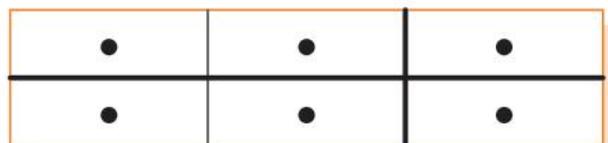
19. [Problem Solving 1]
Find and colour this shape inside the grid.



20. [Problem Solving 2]
Start at 2. Colour the path to the bone by counting by 2s.



21. [Problem Solving 3]
Draw 2 more straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]



MATHS MATE

Term 1 - Sheet 2



Name:

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

Parent's Signature:

1. [Counting]

How many butterflies are there?



5

6. [× Whole Numbers]

9 lots of 5 are

45

7. [+ Whole Numbers]

36 divided by 6 is

6

2. [Addition / Subtraction]

Complete the addition.



$$7 + 8 = 15$$

8. [Word Problems]

The first mandarin that Frankie ate had 8 pips, but the second only had 4 pips. How many pips in total?

[Write the number sentence.]

$$8 + 4 = 12$$

3. [Multiplication / Division]

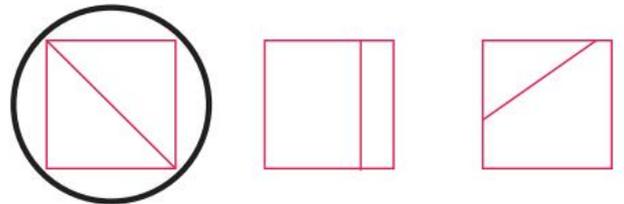
How many groups of 4 anchors?



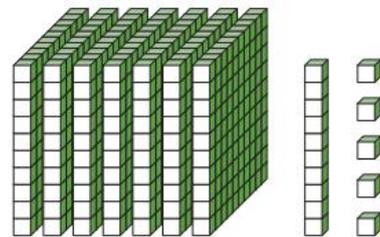
6

9. [Fractions]

Circle the picture that shows halves.



10. [Place Value]



7 hundreds 1 ten 5 ones = 715

4. [+ Whole Numbers]

The sum of 8 and 7 is

15

5. [- Whole Numbers]

140 minus 10 equals

130

11. [Word Numbers]

Write in numerals:
thirty-four

34

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



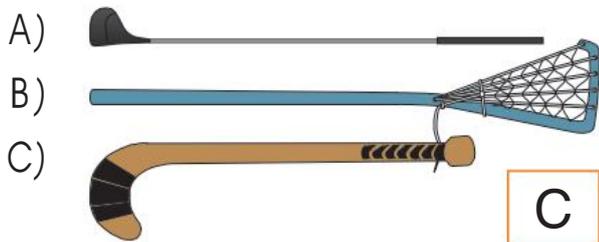
13. [Number Patterns]

7, 9, 11, 13, 15, **17, 19**

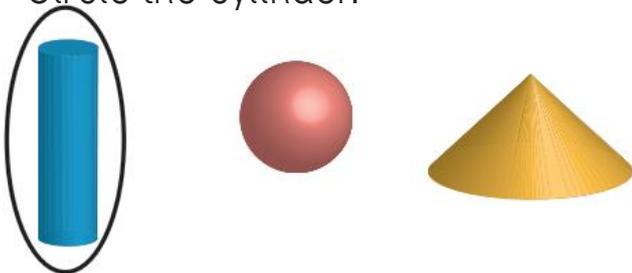
14. [Time]
Which day comes before Sunday?

Saturday

15. [Measuring]
Which stick is the shortest?



16. [Shapes]
Circle the cylinder.



17. [Location]
Is the gift 'on' or 'under' the tree?



under

18. [Statistics / Probability]
How much is the loaf of bread?

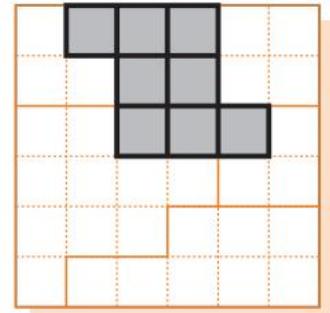
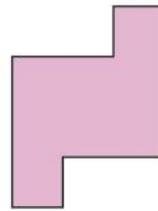
Cost of everyday items

\$	\$ \$ \$ \$	\$ \$ \$	\$ \$ \$

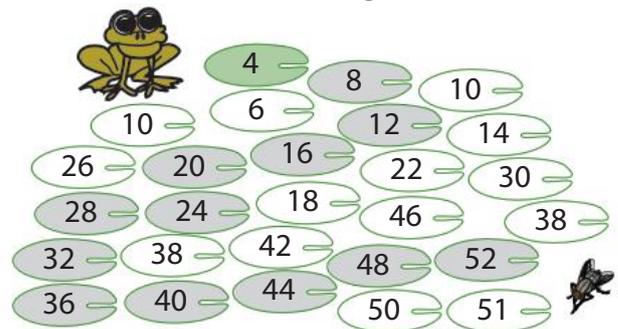
Each \$ = 1 dollar

3 dollars

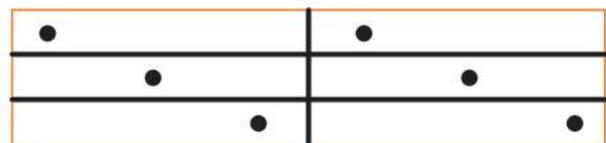
19. [Problem Solving 1]
Find and colour this shape inside the grid.



20. [Problem Solving 2]
Start at 4. Colour the lily pad path to the fly by counting by 4s.



21. [Problem Solving 3]
Draw 3 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]



MATHS MATE

Term 1 - Sheet 3



Name:

Due Date: / /

Parent's Signature:

1. [Counting]

How many ghosts are there?



9

2. [Addition / Subtraction]

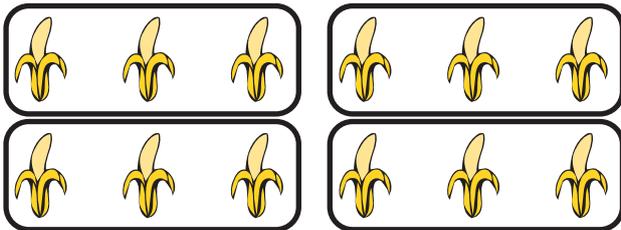
Take away 6.



$$10 - 6 = 4$$

3. [Multiplication / Division]

Circle to divide 12 bananas into 4 equal groups. How many in each group?



3

4. [+ Whole Numbers]

The total of 9 and 3 is

12

5. [- Whole Numbers]

The difference between 23 and 8 is

15

6. [× Whole Numbers]

7 times 3 is

21

7. [÷ Whole Numbers]

How many 4s in 32?

8

8. [Word Problems]

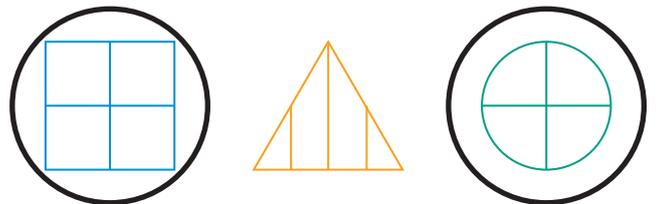
The annual average maximum temperature in the USA is 17°C and in India is 14°C higher. What is the annual average maximum temperature in India?

[Write the number sentence.]

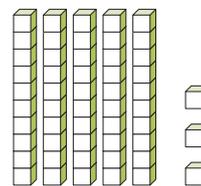
$$17 + 14 = 31 \text{ } ^\circ\text{C}$$

9. [Fractions]

Circle the pictures that show quarters.



10. [Place Value]



$$5 \text{ tens } 3 \text{ ones} = 53$$

11. [Word Numbers]

Write in numerals:
seventy-nine

79

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



13. [Number Patterns]

2, 5, 8, 11, 14, **17, 20**

14. [Time]

Yesterday was Monday. What day is today?

Tuesday

15. [Measuring]

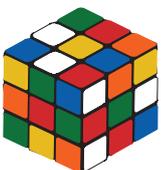
Which person is likely to be the shortest?

- A) teenager
B) man
C) baby

C

16. [Shapes]

What shape is this object?



cube

17. [Location]

Is the bird 'above' or 'below' the scarecrow?



above

18. [Statistics / Probability]

How many toes does a pig have on each foot?

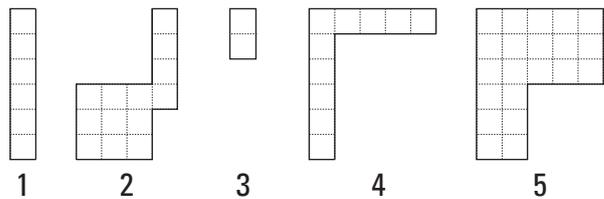
Hoofed animals - Number of toes on a foot

horse	hippo	rhinoceros	pig

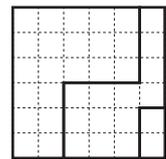
Key: = 1 toe

4

19. [Problem Solving 1]



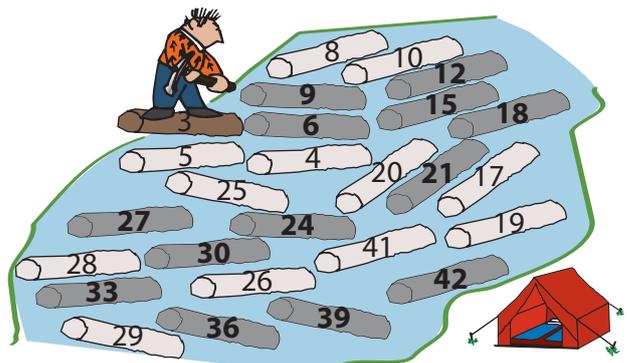
Which shapes were used to complete the square?



2, **3** and **5**

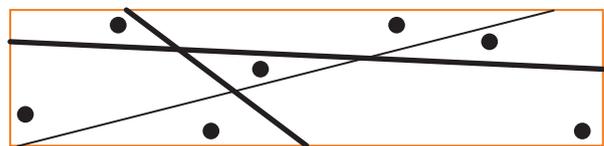
20. [Problem Solving 2]

Start at 3. Colour the log path across the river by counting by 3s.



21. [Problem Solving 3]

Draw 2 more straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]



MATHS MATE

Term 1 - Sheet 4

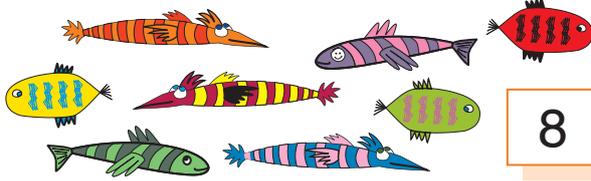


Name:

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

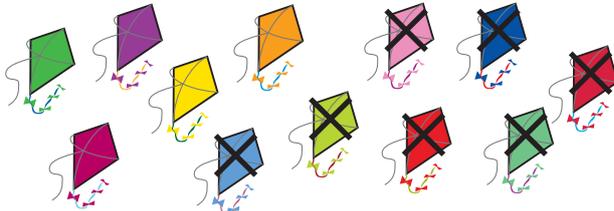
Parent's Signature:

1. [Counting]
How many fish are there?



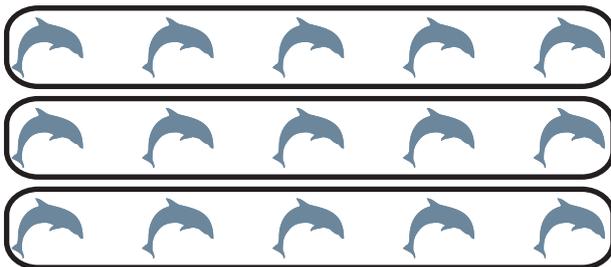
8

2. [Addition / Subtraction]
Take away 7.



$$12 - 7 = 5$$

3. [Multiplication / Division]
Circle to divide 15 dolphins into 3 equal groups. How many in each group?



5

4. [+ Whole Numbers]
7 and 9 together make

16

5. [- Whole Numbers]
34 take away 7 is

27

6. [× Whole Numbers]
4 groups of 5 are

20

7. [÷ Whole Numbers]
21 shared between 3 is

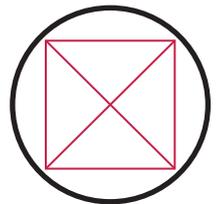
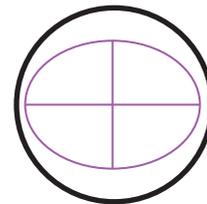
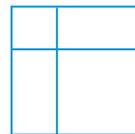
7

8. [Word Problems]
The maximum capacity of a Boeing 787 is 290 passengers. The maximum capacity of an Airbus A380 is 850 passengers. What is their combined maximum capacity?

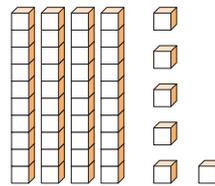
[Write the number sentence.]

$$290 + 850 = 1140$$

9. [Fractions]
Circle the pictures that show quarters.



10. [Place Value]



$$4 \text{ tens } 6 \text{ ones} = 46$$

11. [Word Numbers]
Write in numerals:
ninety-eight

98

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



13. [Number Patterns]
5, 15, 25, 35, 45, **55, 65**

14. [Time]
Today is Wednesday. What day was it a week ago?

Wednesday

15. [Measuring]
Which is likely to be the longest?
A) long jump pit
B) soccer field
C) lap pool

B

16. [Shapes]
What shape is this object?



cone

17. [Location]
Is most of Santa 'inside' or 'outside' the chimney?



inside

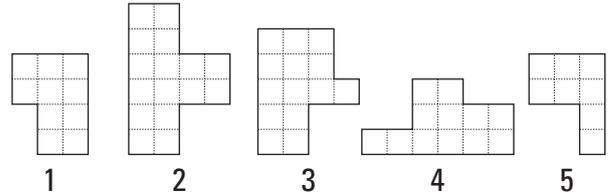
18. [Statistics / Probability]
How many more gold medals than silver medals did Hungary win in the 2016 Olympics?

2016 Olympics - Hungary

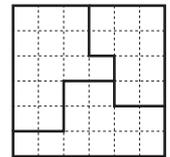


5

19. [Problem Solving 1]

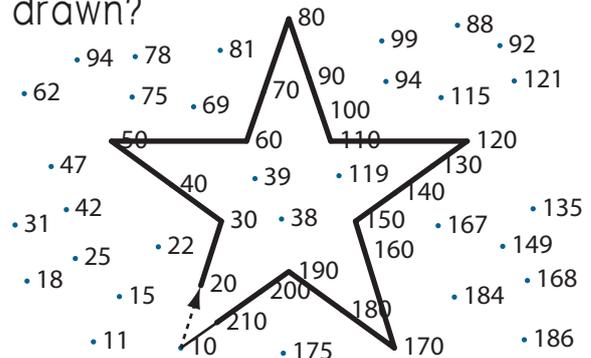


Which shapes were used to complete the square?



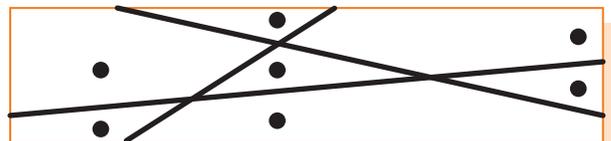
1, 3 and 4

20. [Problem Solving 2]
Start at 10. Connect the dots by counting by 10s. What have you drawn?



star

21. [Problem Solving 3]
Draw 3 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]





Name:

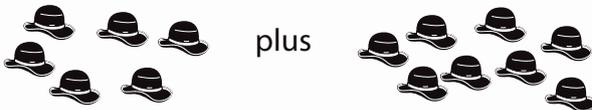
1. [Counting]

How many candles are there?


11

2. [Addition / Subtraction]

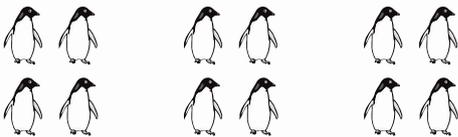
Complete the addition.



$$\boxed{6} + \boxed{8} = \boxed{14}$$

3. [Multiplication / Division]

How many groups of 4 penguins?


3

4. [+ Whole Numbers]

The sum of 9 and 5 equals

14

5. [- Whole Numbers]

21 take away 5 equals

16

6. [× Whole Numbers]

6 times 3 is

18

7. [÷ Whole Numbers]

How many 2s in 16?

8

8. [Word Problems]

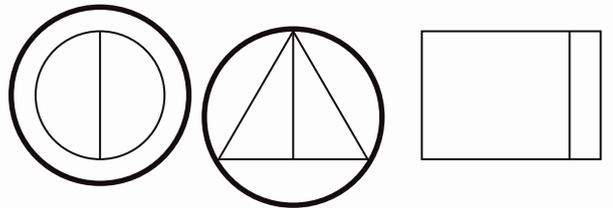
The annual average maximum temperature in China is 13°C and in Australia is 15°C higher. What is the annual average maximum temperature in Australia?

[Write the number sentence.]

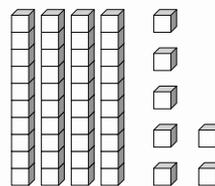
$$\boxed{13 + 15 = 28} \text{ } ^\circ\text{C}$$

9. [Fractions]

Circle the pictures that show halves.



10. [Place Value]



$$\boxed{4} \text{ tens } \boxed{7} \text{ ones} = \boxed{47}$$

11. [Word Numbers]

Write in numerals:
fifty-two

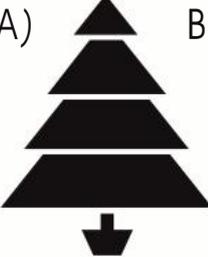
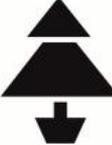
52

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



13. [Number Patterns]
5, 7, 9, 11, 13, 15, 17

14. [Time]
Yesterday was Thursday. What day is today?
Friday

15. [Measuring]
Which Christmas tree is the shortest?
A)  B)  C) 
B

16. [Shapes]
Circle the cube.


17. [Location]
Is most of the rubbish 'inside' or 'outside' the bin?

inside

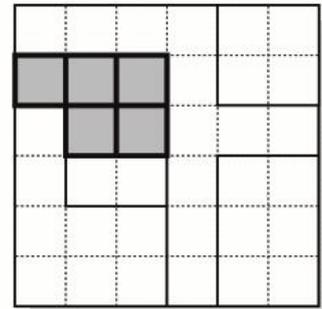
18. [Statistics / Probability]
How many toes does a giraffe have on each foot?
Hoofed animals - Number of toes on a foot

			
donkey	giraffe	antelope	sloth

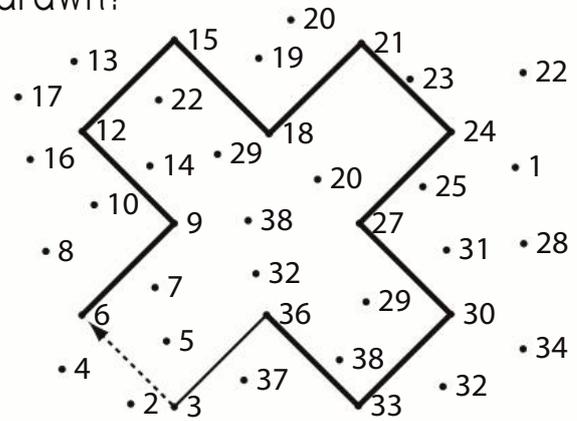
Key:  = 1 toe

2

19. [Problem Solving 1]
Find and colour this shape inside the grid.

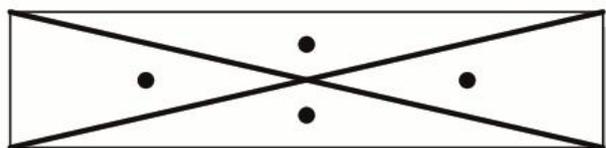


20. [Problem Solving 2]
Start at 3. Connect the dots by counting by 3s. What have you drawn?



CROSS

21. [Problem Solving 3]
Draw 2 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]

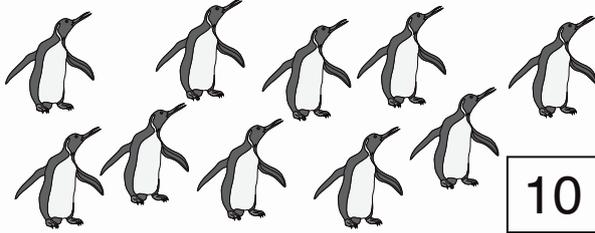




Name:

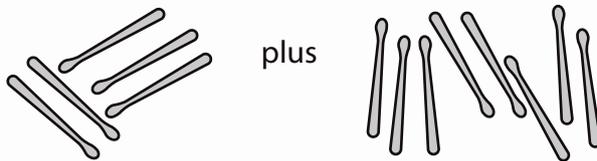
1. [Counting]

How many penguins are there?


10

2. [Addition / Subtraction]

Complete the addition.



$$\boxed{5} + \boxed{8} = \boxed{13}$$

3. [Multiplication / Division]

How many groups of 4 hearts?


4

4. [+ Whole Numbers]

The sum of 8 and 4 equals

12

5. [- Whole Numbers]

27 take away 9 equals

18

6. [× Whole Numbers]

7 times 2 is

14

7. [÷ Whole Numbers]

How many 3s in 27?

9

8. [Word Problems]

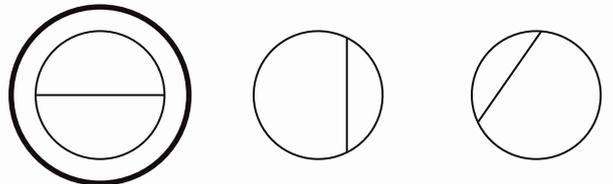
The annual average maximum temperature in Germany is 12°C and in Niger is 23°C higher. What is the annual average maximum temperature in Niger?

[Write the number sentence.]

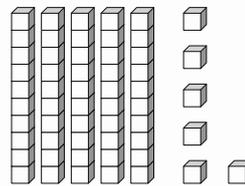
$$\boxed{12 + 23 = 35 \text{ } ^\circ\text{C}}$$

9. [Fractions]

Circle the picture that shows halves.



10. [Place Value]



$$\boxed{5} \text{ tens } \boxed{6} \text{ ones} = \boxed{56}$$

11. [Word Numbers]

Write in numerals:
sixty-five

65

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



13. [Number Patterns]
6, 8, 10, 12, 14, 16, 18

14. [Time]
Yesterday was Friday. What day is today?
Saturday

15. [Measuring]
Which musical instrument is the shortest?
- A) 
- B) 
- C) 
- A

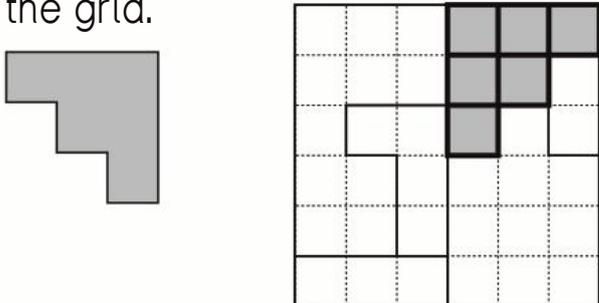
16. [Shapes]
Circle the cone.
- 

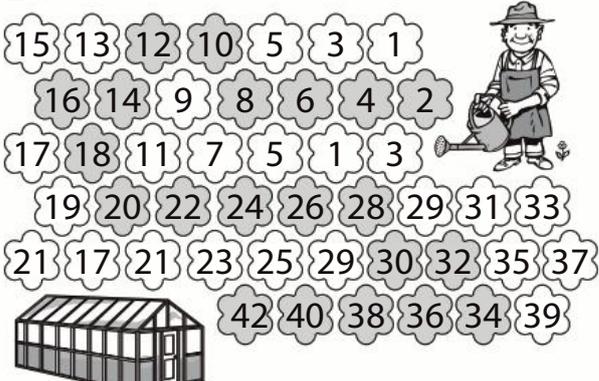
17. [Location]
Is the sponge 'inside' or 'outside' the bucket?
- 
- outside

18. [Statistics / Probability]
How much is the bunch of celery?

Cost of groceries

\$	\$	\$	\$
\$	\$	\$	\$
\$	\$	\$	\$
			
Each \$ = 1 dollar		3 dollars	

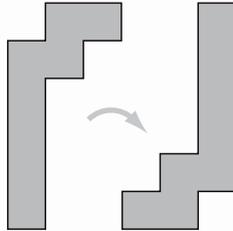
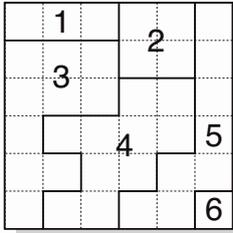
19. [Problem Solving 1]
Find and colour this shape inside the grid.
- 

20. [Problem Solving 2]
Start at 2. Colour the flower path to the greenhouse by counting by 2s.
- 
- 15 13 12 10 5 3 1
16 14 9 8 6 4 2
17 18 11 7 5 1 3
19 20 22 24 26 28 29 31 33
21 17 21 23 25 29 30 32 35 37
42 40 38 36 34 39

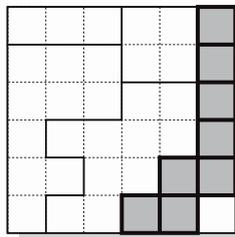
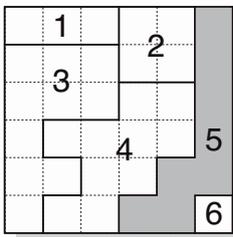
21. [Problem Solving 3]
Draw 2 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]
- 

1.1

- 19. Hint:** Identify the 6 different shapes on the grid.
OR Trace and cut out the shape and lay it over the grid.
Solution: Consider each of the 6 different outlined shapes in the grid.

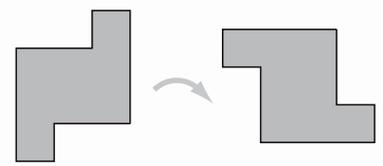
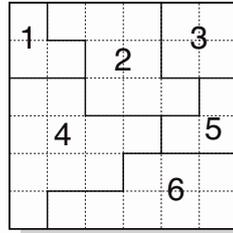


The shape can be found in position 5.

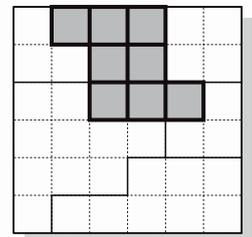
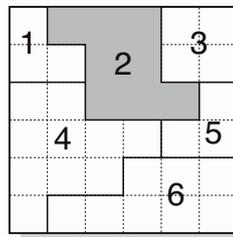


1.2

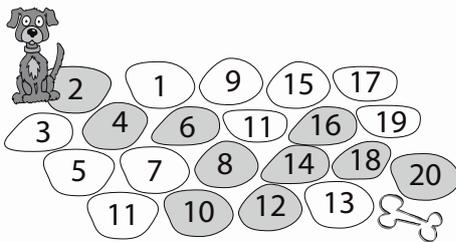
- 19. Hint:** Identify the 6 different shapes on the grid.
OR Trace and cut out the shape and lay it over the grid.
Solution: Consider each of the 6 different outlined shapes in the grid.



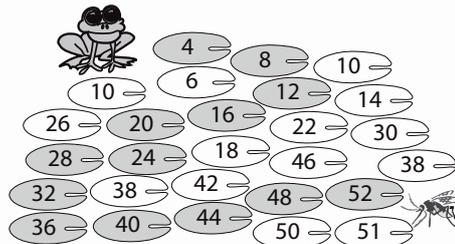
The shape can be found in position 2.



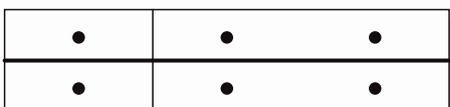
- 20. Hint:** Count by 2s and write down the results to 20.
Solution: Start at 2. Write a list counting by 2s to 20.
2, 4, 6, 8, 10, 12, 14, 16, 18, 20 (all even numbers)
Colour the numbers on the path in order.



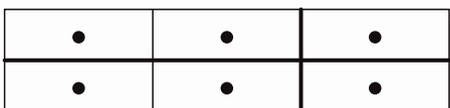
- 20. Hint:** Count by 4s and write down the results to 52.
Solution: Start at 4. Write a list counting by 4s to 52.
4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52
(all even numbers)
Colour the numbers on the path in order.



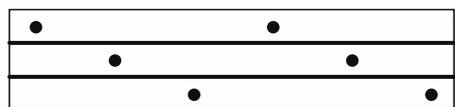
- 21. Hint:** What line can you draw to separate as many dots as possible? Use trial and error.
Solution: Six dots require 6 areas to be drawn.
A horizontal line separating the top and bottom rows of dots will produce 4 areas.



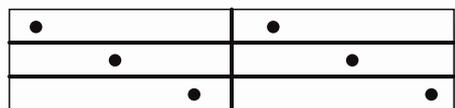
Adding a vertical line results in 6 areas.



- 21. Hint:** What line can you draw to separate as many dots as possible? Use trial and error.
Solution: Six dots require 6 areas to be drawn.
Two horizontal lines will separate the dots into rows. This produces 3 areas.

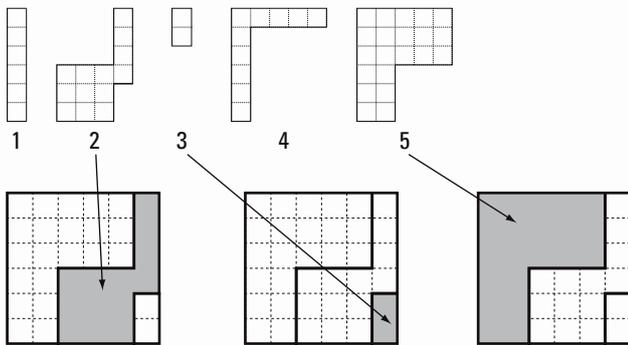


Adding a vertical line results in 6 areas.



1.3

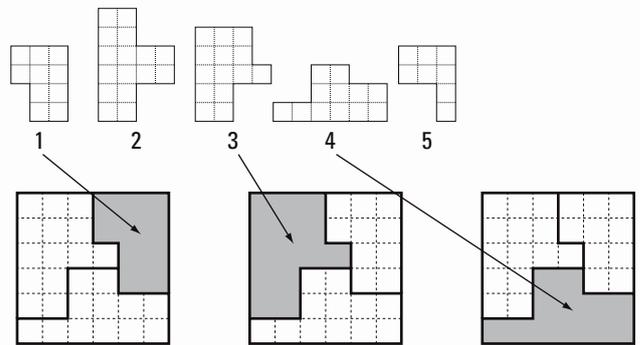
19. **Hint:** Try to identify any of the 5 different shapes on the grid. OR Trace and cut out each shape. Lay the shapes over the grid. Try to find a match.
Solution: Consider each of the 5 different outlined shapes in the grid.



The shapes 2, 3 and 5 were used to complete the grid.

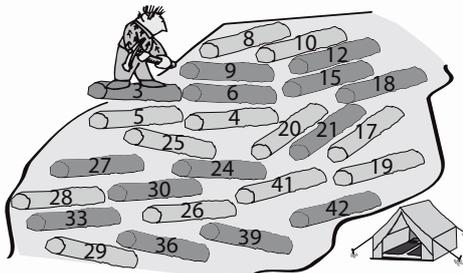
1.4

19. **Hint:** Try to identify any of the 5 different shapes on the grid. OR Trace and cut out each shape. Lay the shapes over the grid. Try to find a match.
Solution: Consider each of the 5 different outlined shapes in the grid.

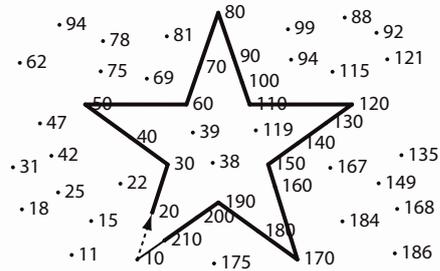


The shapes 1, 3 and 4 were used to complete the grid.

20. **Hint:** Count by 3s and write down the results to 42.
Solution: Start at 3. Write a list counting by 3s to 42.
 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42
 Colour the numbers on the path in order.

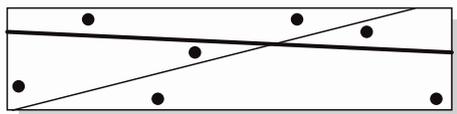


20. **Hint:** Count by 10s and join all the results as you count.
Solution: Start at 10. Count by 10s:
 10, 20, 30, 40, 50, 60
 Once you have established the pattern, connect the numbers in order.

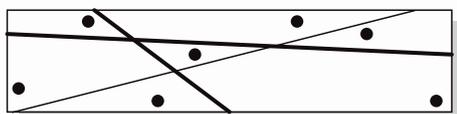


A star has been drawn.

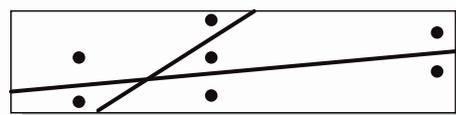
21. **Hint:** What line can you draw to separate as many dots as possible? Use trial and error.
Solution: Seven dots require 7 areas to be drawn. Draw a line separating the top row of 3 dots from the others. This will produce 4 areas.



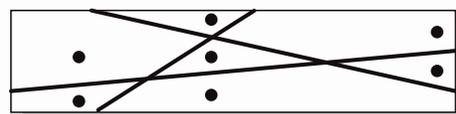
Adding another line results in 7 areas.



21. **Hint:** What line can you draw to separate as many dots as possible? Use trial and error.
Solution: Seven dots require 7 areas to be drawn. Draw a line separating the bottom row of 3 dots. Draw another line with 3 dots on the left. This will produce 4 areas.



Draw another line with 3 dots on the right. This will produce 7 areas.

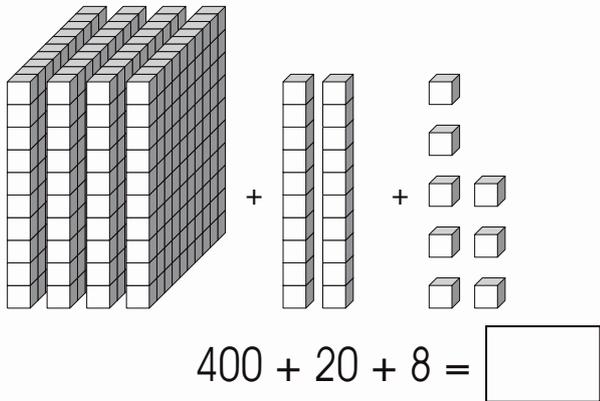


Skill 2.7 Adding numbers by using base 10 blocks (1).

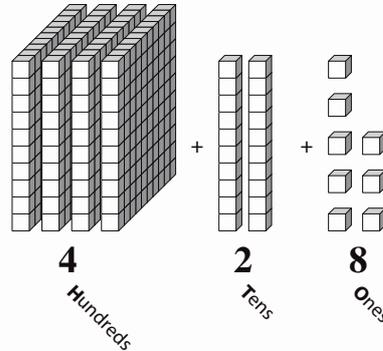
Orange 11 22 3 44
Rose 11 22 3 44

- 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.

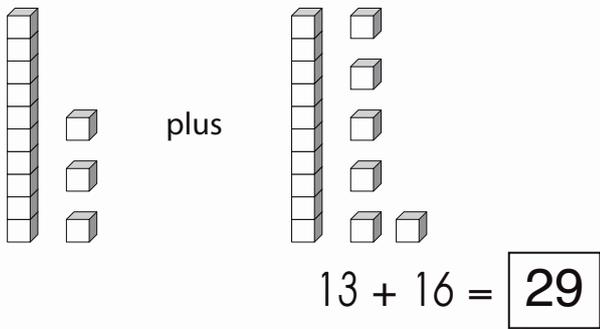
Q. Complete the addition.



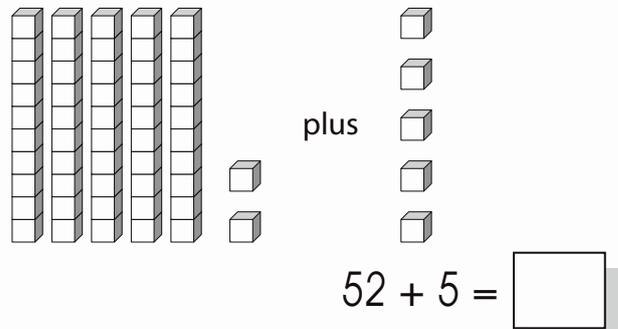
A. $400 + 20 + 8 = 428$



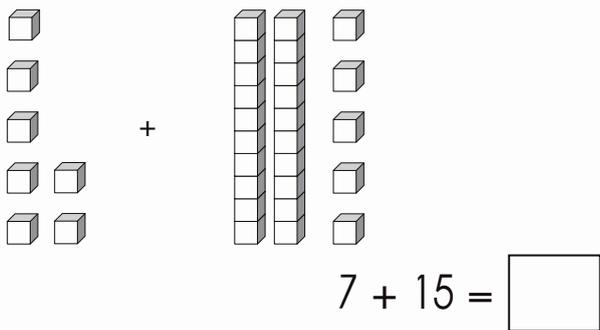
a) Complete the addition.



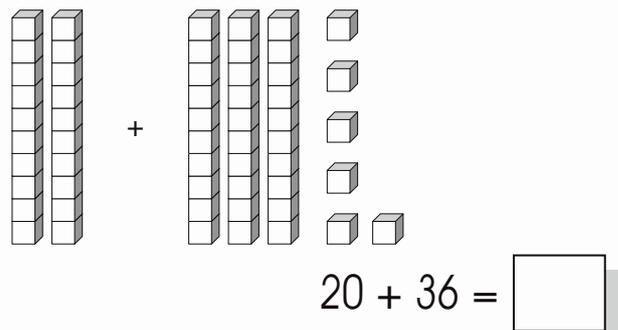
b) Complete the addition.



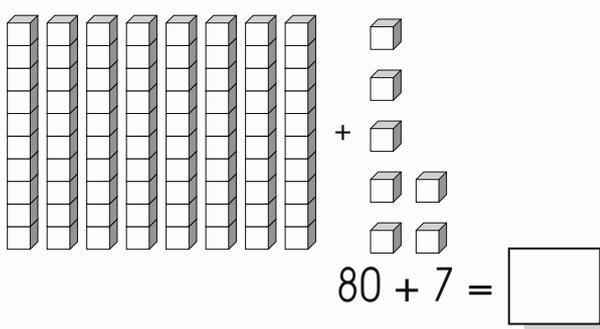
c) Complete the addition.



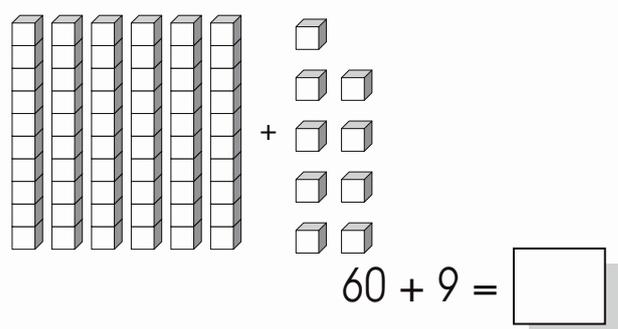
d) Complete the addition.



e) Complete the addition.



f) Complete the addition.

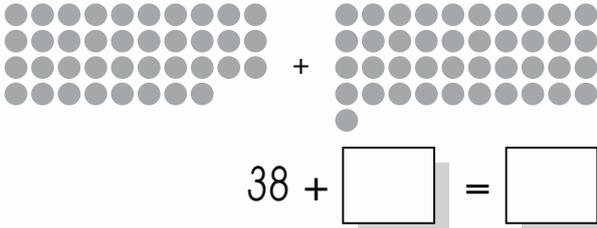


Skill 2.8 Completing addition number sentences by using base 10 representation.

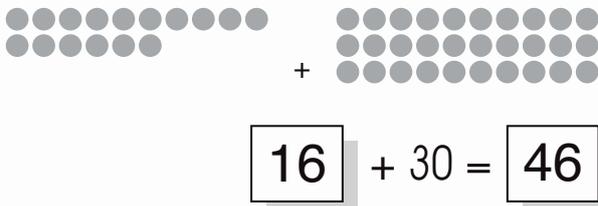
- Count by 10s the number of dots on each side of the number sentence.
- Add the totals.

Q. Complete the number sentence.

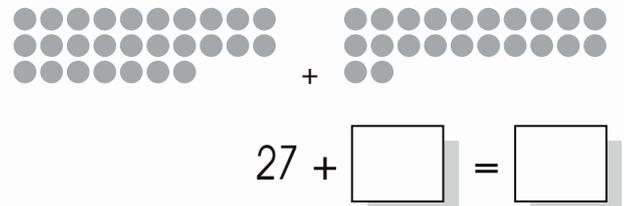
A. $38 + 41 = 79$



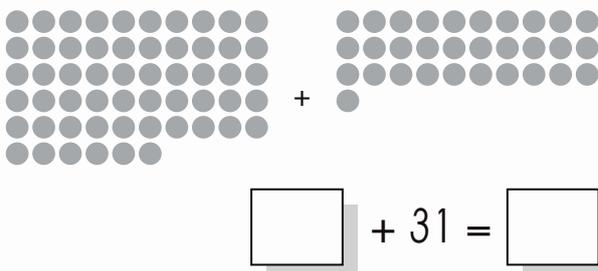
a) Complete the number sentence.



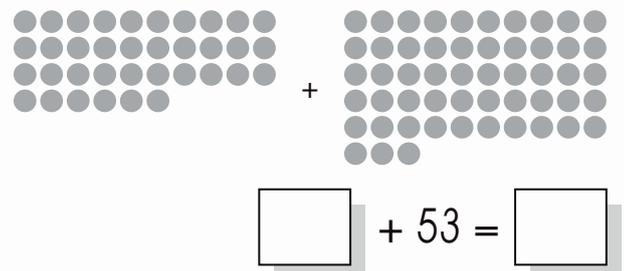
b) Complete the number sentence.



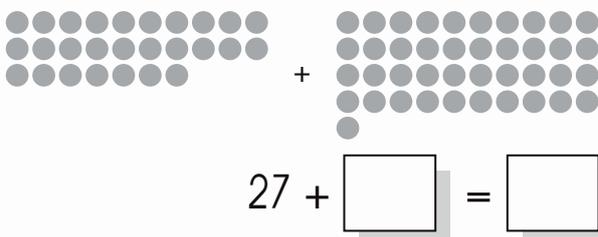
c) Complete the number sentence.



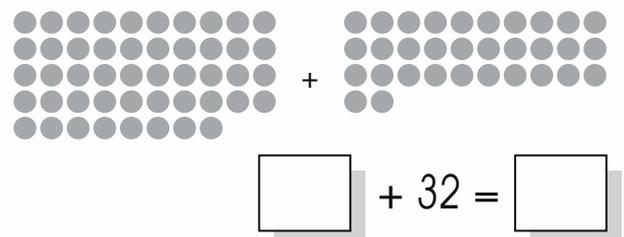
d) Complete the number sentence.



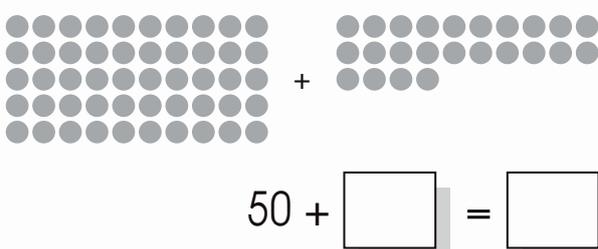
e) Complete the number sentence.



f) Complete the number sentence.



g) Complete the number sentence.



h) Complete the number sentence.

