first edition

MATHS MATE level 2.2

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

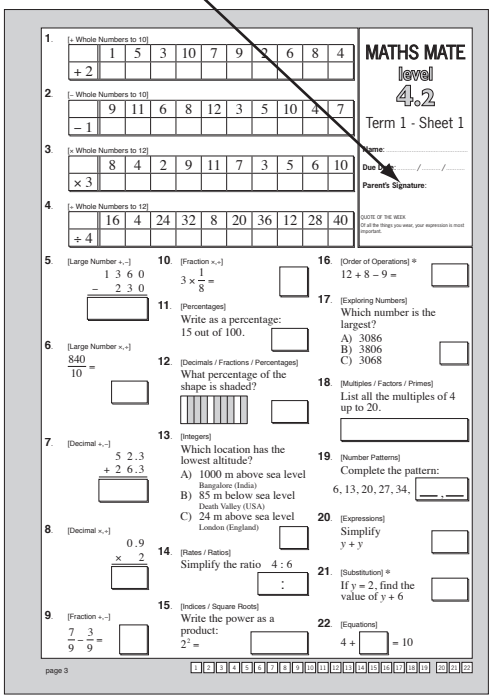
Skill Builders:

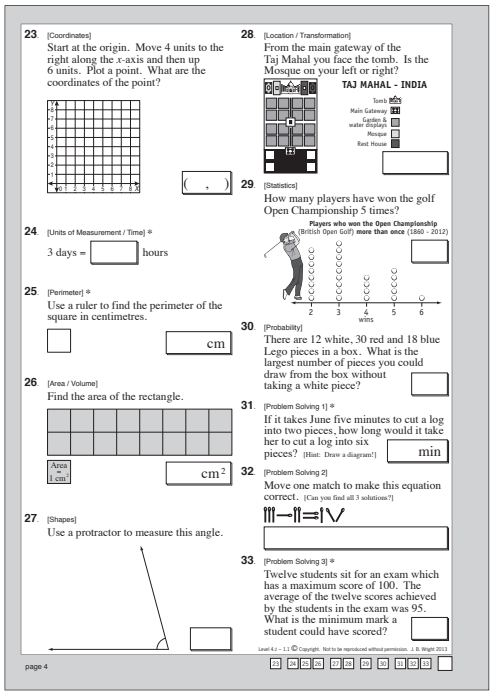
2.7 Adding numbers by using base 10 blocks.
2.8 Completing adition number sentences by using base 10 representation.

J. B. Wright

HOW TO USE MATHS MATE

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

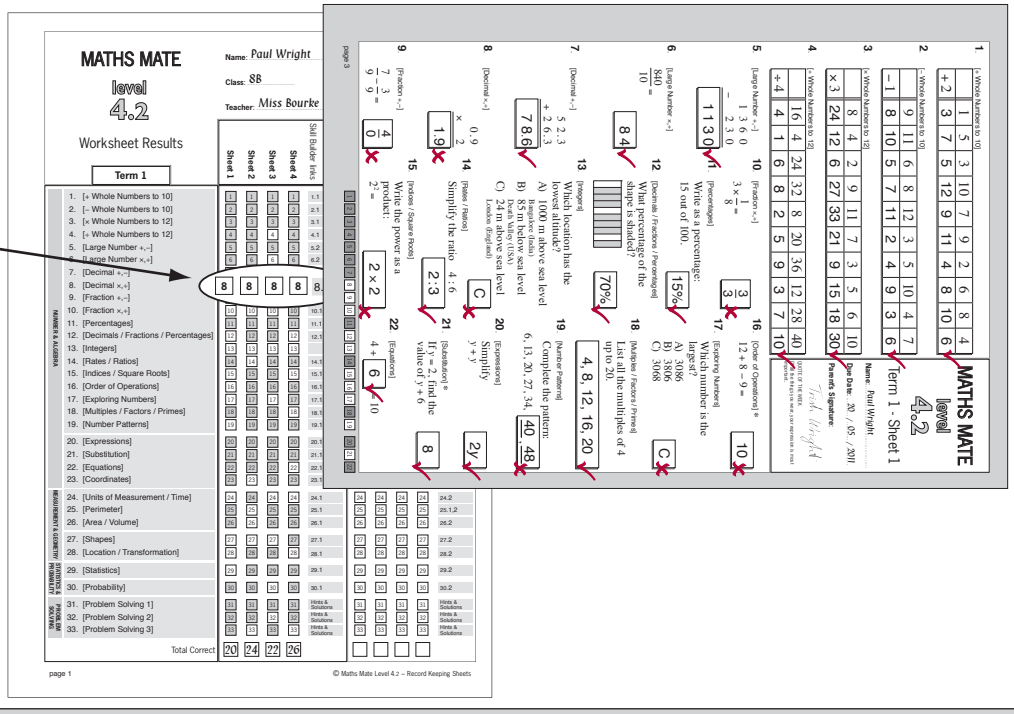




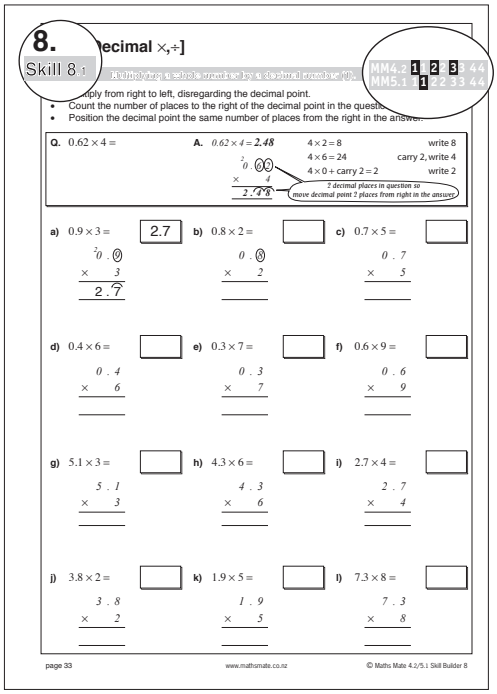
2. Students correct their work in class. Students colour the boxes to record their correct answers.

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

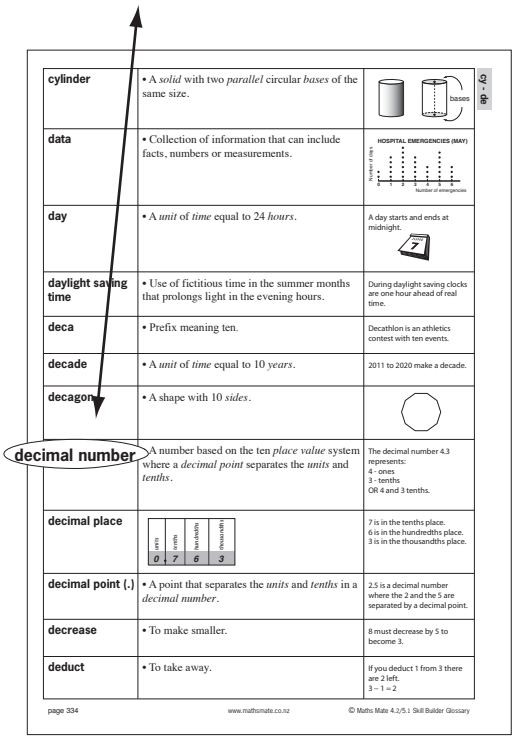
4. Students identify the appropriate Skill Builder as listed on the record keeping sheet.



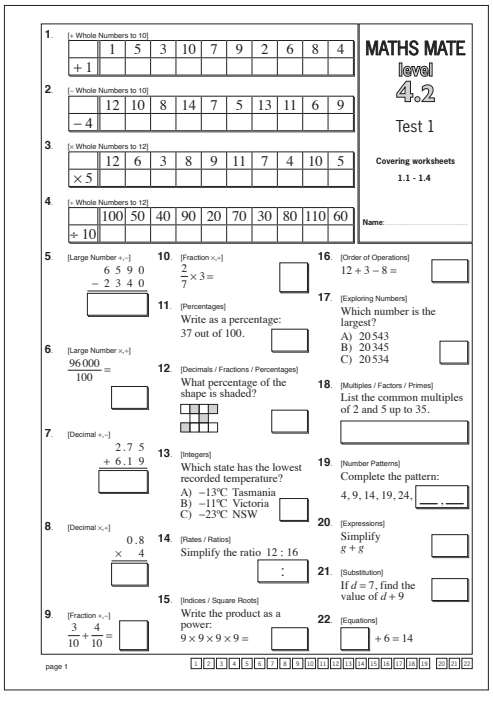
5. Students complete the **Skill Builder.** Students are supported with instructions and worked examples.

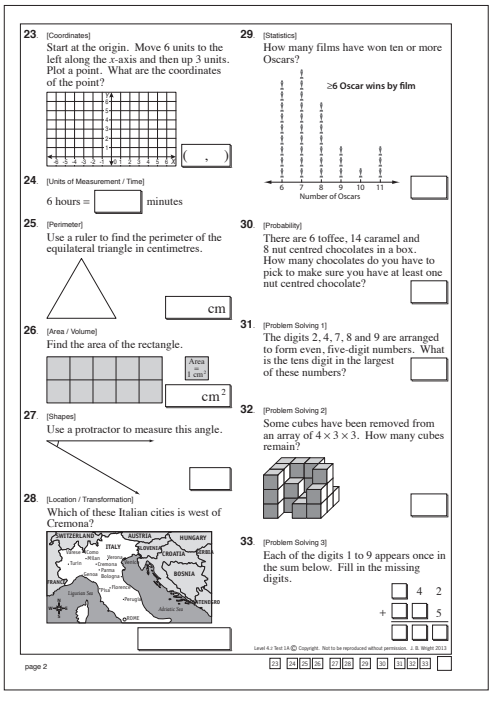


6. The Skill Builders also have a **Glossary** and **Maths Facts**.



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





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 76 534 and 75 436.

The largest number is 76 534 and the hundreds digit is **5**.

MATHS MATE

level 2.2

Worksheet Results

Name: .....

Class: .....

Teacher: .....

Term 1

		Sheet 1	Sheet 2	Sheet 3	Sheet 4	Skill Builder links	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Skill Builder links
NUMBER & ALGEBRA	1. [Counting]	1	1	1	1	1.1	1	1	1	1	1.2,3
	2. [Addition / Subtraction]	2	2	2	2	2.1,11	2	2	2	2	2.2,3
	3. [Multiplication / Division]	3	3	3	3	3.1,10	3	3	3	3	3.2,11
	4. [+ Whole Numbers]	4	4	4	4	4.1	4	4	4	4	4.2,3,5,6
	5. [– Whole Numbers]	5	5	5	5	5.1	5	5	5	5	5.2,3,4,5,6
	6. [× Whole Numbers]	6	6	6	6	6.1	6	6	6	6	6.2,5
	7. [÷ Whole Numbers]	7	7	7	7	7.1	7	7	7	7	7.2
	8. [Word Problems]	8	8	8	8	8.1	8	8	8	8	8.2
	9. [Fractions]	9	9	9	9	9.1	9	9	9	9	9.2,3
	10. [Place Value]	10	10	10	10	10.1	10	10	10	10	10.2
	11. [Word Numbers]	11	11	11	11	11.1	11	11	11	11	11.2
	12. [Money]	12	12	12	12	12.1	12	12	12	12	12.2
	13. [Number Patterns]	13	13	13	13	13.1	13	13	13	13	13.2
MEASUREMENT & GEOMETRY S & P	14. [Time]	14	14	14	14	14.1	14	14	14	14	14.2
	15. [Measuring]	15	15	15	15	15.1	15	15	15	15	15.2,3
	16. [Shapes]	16	16	16	16	16.1	16	16	16	16	16.2
	17. [Location]	17	17	17	17	17.1	17	17	17	17	17.2,3
	18. [Statistics / Probability]	18	18	18	18	18.1	18	18	18	18	18.2
PROBLEM SOLVING	19. [Problem Solving 1]	19	19	19	19	Hints & Solutions	19	19	19	19	Hints & Solutions
	20. [Problem Solving 2]	20	20	20	20	Hints & Solutions	20	20	20	20	Hints & Solutions
	21. [Problem Solving 3]	21	21	21	21	Hints & Solutions	21	21	21	21	Hints & Solutions
	Total Correct										

MATHS MATE

Term 1 - Sheet 1

level 2.2

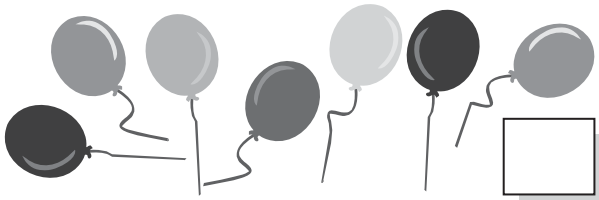
Name: .....

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

Parent's Signature: .....

1. [Counting]

How many balloons are there?



2. [Addition / Subtraction]

Complete the addition.

plus

6 + 5 = ☐

3. [Multiplication / Division]

How many groups of 5 books?

☐

4. [+ Whole Numbers]

6 add on 4 is ☐

5. [– Whole Numbers]

19 subtract 6 makes ☐

6. [× Whole Numbers]

9 multiplied by 2 is ☐

7. [÷ Whole Numbers]

20 shared between 5 is ☐

8. [Word Problems]

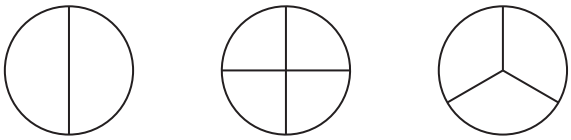
In the wild a lion sleeps for about 13 hours each day. A koala sleeps 9 hours more each day. For how many hours each day does a koala sleep?

[Write the number sentence.]

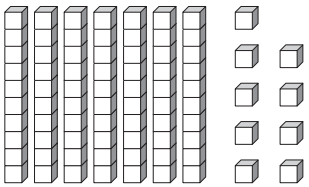
☐ = ☐ h

9. [Fractions]

Circle the picture that shows thirds.



10. [Place Value]



7 tens 9 ones = ☐

11. [Word Numbers]

Write in numerals:

sixteen ☐

12. [Money]

What is the value of the coin?

cents

13. [Number Patterns]

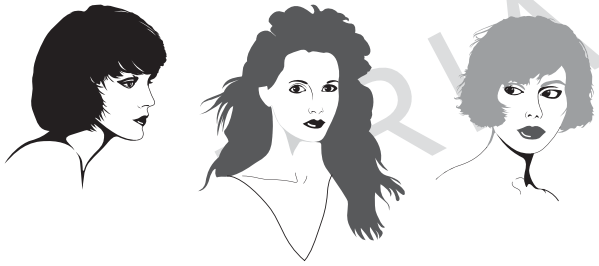
2 , 4 , 6 , 8 , 10 , __ , __

14. [Time]

Which day comes after Wednesday?

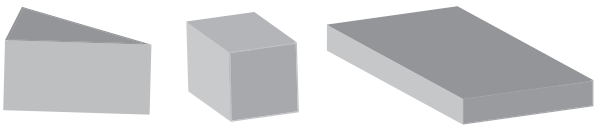
15. [Measuring]

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?

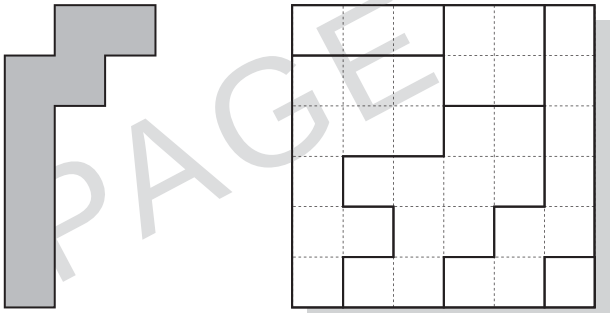
Number of moons

Earth	Mars	Pluto	Venus
☾	☾ ☾	☾	

Key: ☾ = 1 moon

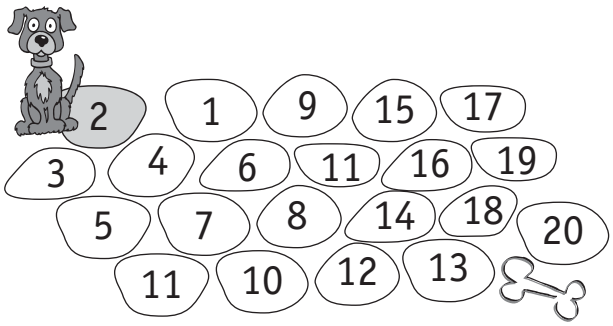
19. [Problem Solving 1]

Find and colour this shape inside the grid.



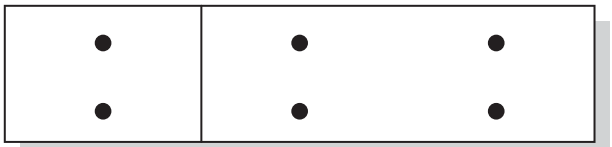
20. [Problem Solving 2]

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

level 2.2

Name: .....

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

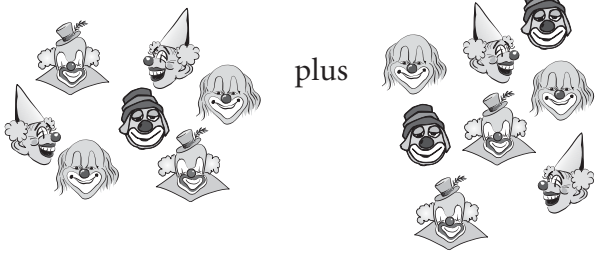
Parent's Signature: .....

1. [Counting]

How many butterflies are there?

2. [Addition / Subtraction]

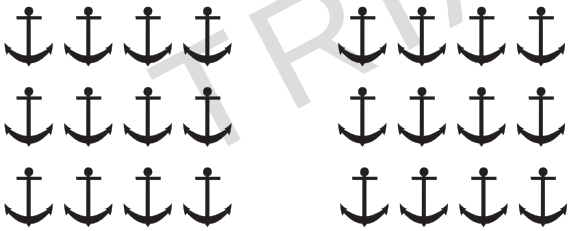
Complete the addition.



☐ + ☐ = ☐

3. [Multiplication / Division]

How many groups of 4 anchors?



4. [+ Whole Numbers]

The sum of 8 and 7 is ☐

5. [– Whole Numbers]

140 minus 10 equals ☐

6. [× Whole Numbers]

9 lots of 5 are ☐

7. [÷ Whole Numbers]

36 divided by 6 is ☐

8. [Word Problems]

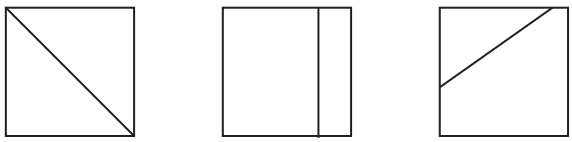
The first mandarin that Frankie ate had 18 pips, but the second only had 14 pips. How many pips in total?

[Write the number sentence.]

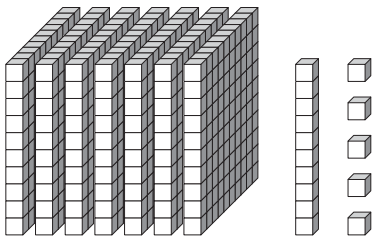
☐ =

9. [Fractions]

Circle the picture that shows halves.



10. [Place Value]



7 hundreds 1 ten 5 ones = ☐

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?

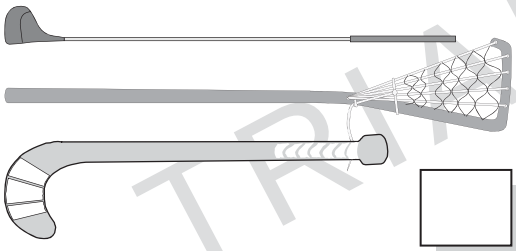
15. [Measuring]

Which stick is the shortest?

A)

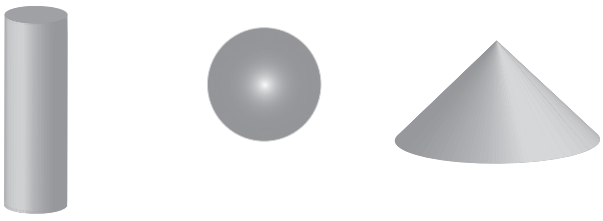
B)

C)



16. [Shapes]

Circle the cylinder.



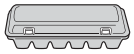
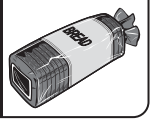
17. [Location]

Is the gift 'on' or 'under' the tree?

18. [Statistics / Probability]

How much is the loaf of bread?

Cost of everyday items

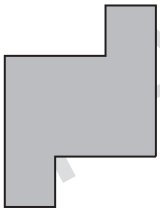
$ $	$ $ $ $	$ $ $	$ $ $
			

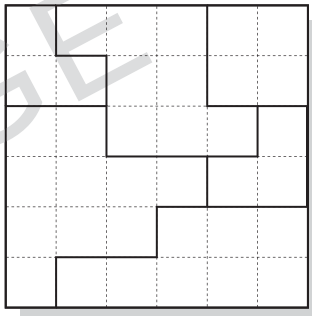
Each $ = 1 dollar

dollars

19. [Problem Solving 1]

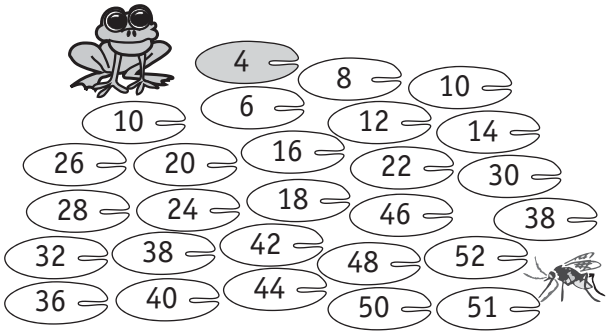
Find and colour this shape inside the grid.





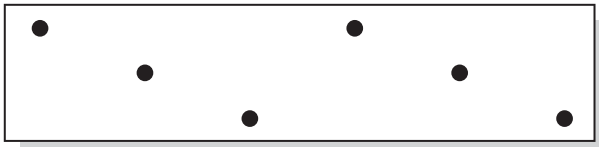
20. [Problem Solving 2]

Start at 4. Colour the lilypad 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

level 2.2

Name: .....

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

Parent's Signature: .....

1. [Counting]

How many ghosts are there?

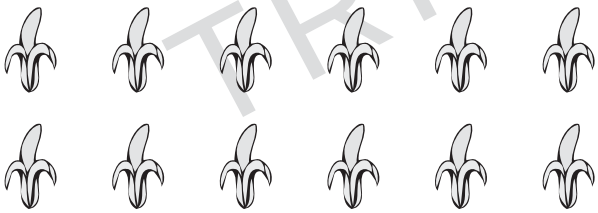
2. [Addition / Subtraction]

Take away 6.

10 – 6 = ☐

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]

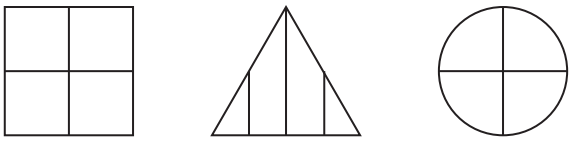
The annual average maximum temperature in the USA is 17°C and in India is 14°C higher. What is the annual average maximum temperature in India?

[Write the number sentence.]

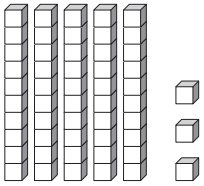
☐ = ☐ °C

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?

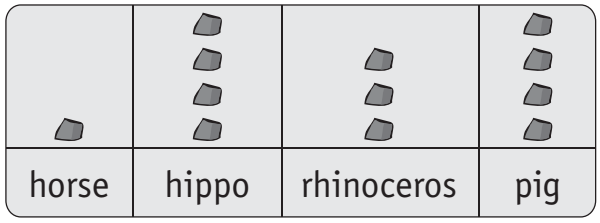
17. [Location]

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

18. [Statistics / Probability]

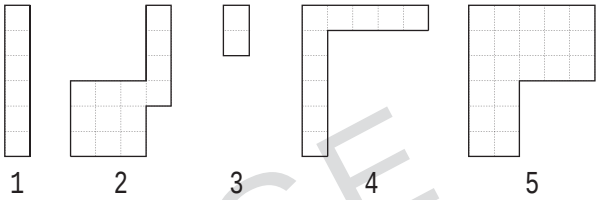
How many toes does a pig have on each foot?

Hoofed animals - Number of toes on a foot

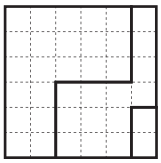


Key: = 1 toe

19. [Problem Solving 1]



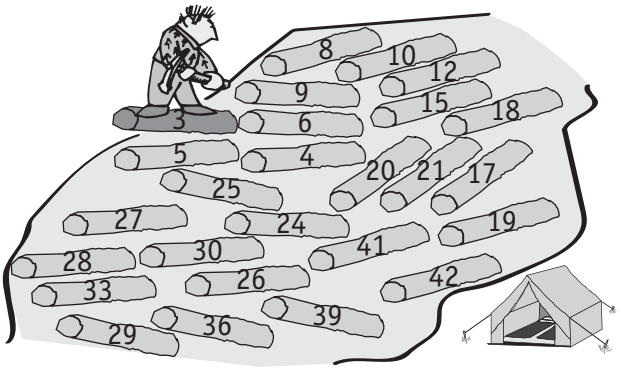
Which shapes were used to complete the square?



, and

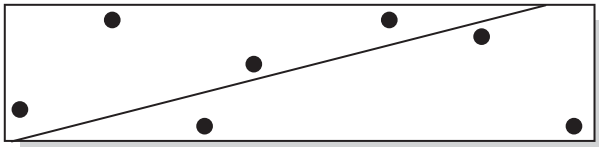
20. [Problem Solving 2]

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

level 2.2

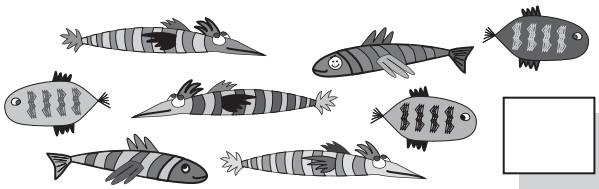
Name: .....

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

Parent's Signature: .....

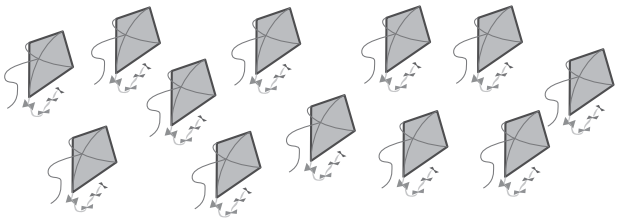
1. [Counting]

How many fish are there?



2. [Addition / Subtraction]

Take away 7.



□ − □ = □

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]

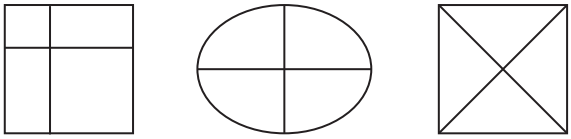
The maximum capacity of a Boeing 787 is 290 passengers. The maximum capacity of an Airbus A380 is 850 passengers. What is their combined maximum capacity?

[Write the number sentence.]

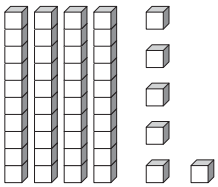
□ =

9. [Fractions]

Circle the pictures that show quarters.



10. [Place Value]



□ tens □ ones = □

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?

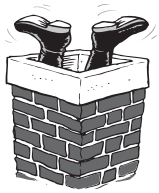
A) long jump pit
B) soccer field
C) lap pool

16. [Shapes]

What shape is this object?

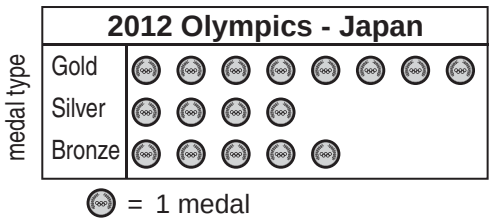
17. [Location]

Is most of Santa 'inside' or 'outside' the chimney?

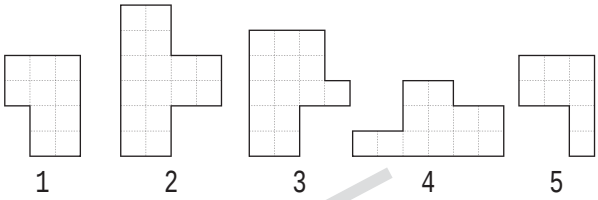


18. [Statistics / Probability]

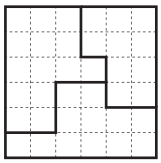
How many more gold medals than silver medals did Japan win in the 2012 Olympics?



19. [Problem Solving 1]



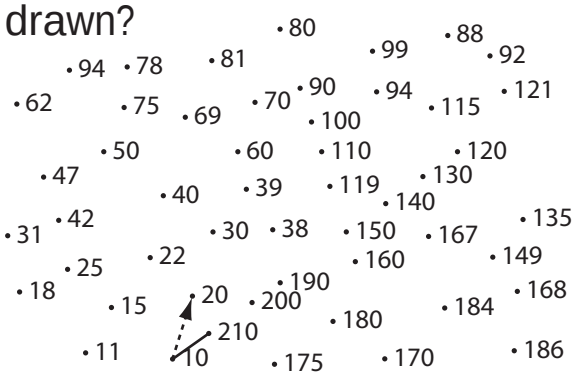
Which shapes were used to complete the square?



, , and

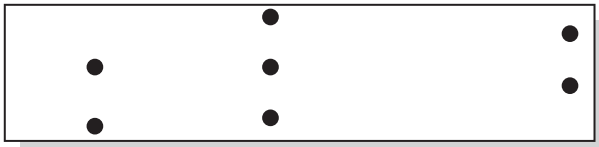
20. [Problem Solving 2]

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.]



MATHS MATE level 2.2

Test 1

Covering worksheets 1.1 - 1.4

Name: .....

1. [Counting]

How many candles are there?

2. [Addition / Subtraction]

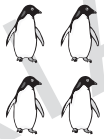
Complete the addition.

plus

□ + □ = □

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]

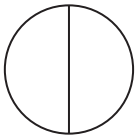
The annual average maximum temperature in China is 13°C and in Australia is 15°C higher. What is the annual average maximum temperature in Australia?

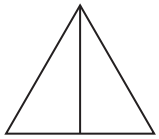
[Write the number sentence.]

□ = □ °C

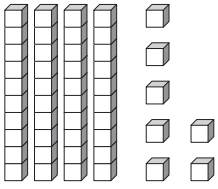
9. [Fractions]

Circle the pictures that show halves.





10. [Place Value]



□ tens □ ones = □

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 , ___ , ___

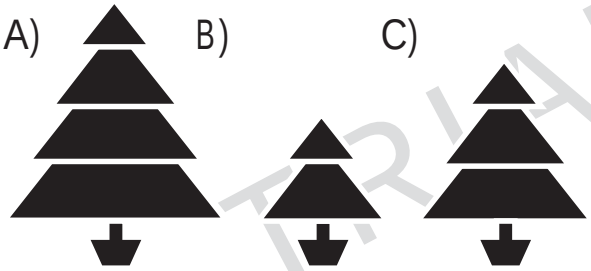
14. [Time]

Yesterday was Thursday. What day is today?

15. [Measuring]

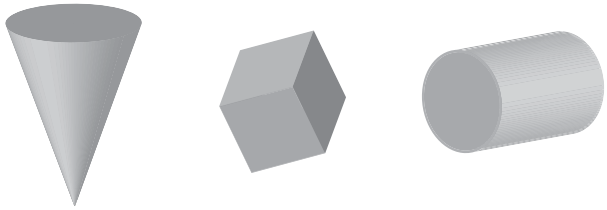
Which Christmas tree is the shortest?

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?

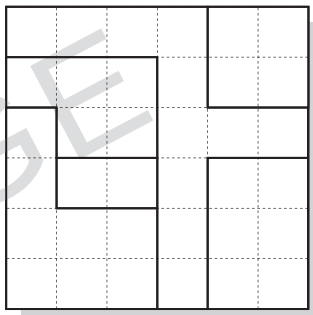
Hoofed animals - Number of toes on a foot

donkey	giraffe	antelope	sloth

Key: = 1 toe

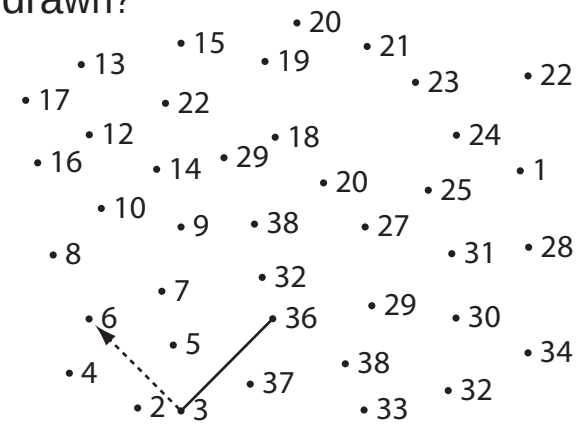
19. [Problem Solving 1]

Find and colour this shape inside the grid.



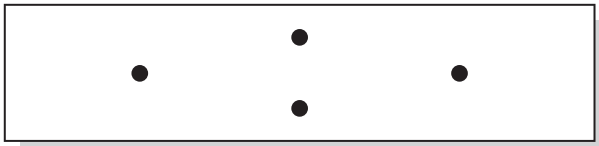
20. [Problem Solving 2]

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.]



MATHS MATE level 2.2

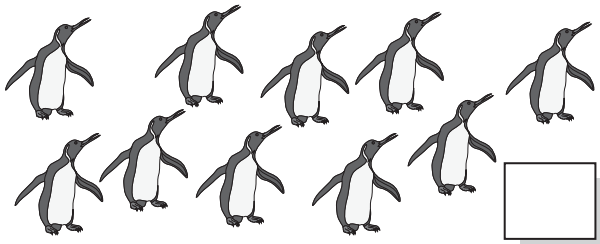
Test 1

Covering worksheets 1.1 - 1.4

Name: .....

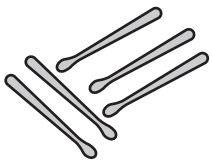
1. [Counting]

How many penguins are there?

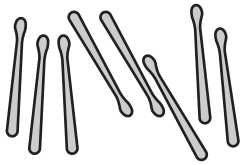


2. [Addition / Subtraction]

Complete the addition.



plus



+ =

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]

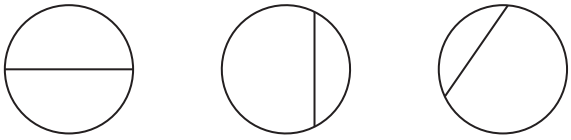
The annual average maximum temperature in Germany is 12°C and in Niger is 23°C higher. What is the annual average maximum temperature in Niger?

[Write the number sentence.]

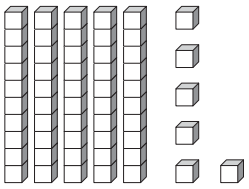
= °C

9. [Fractions]

Circle the picture that shows halves.



10. [Place Value]



tens ones =

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?

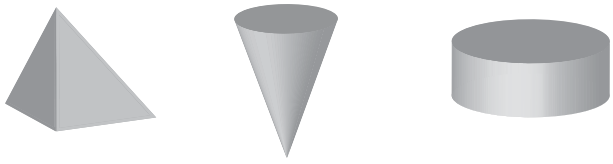
A)

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

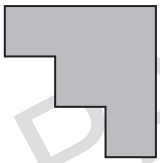
$ $	$ $ $ $	$ $ $	$ $ $
			

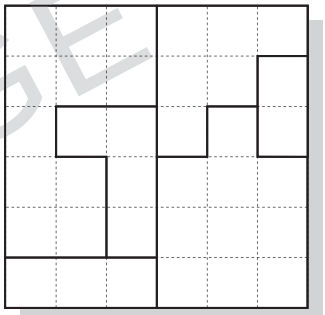
Each $ = 1 dollar

dollars

19. [Problem Solving 1]

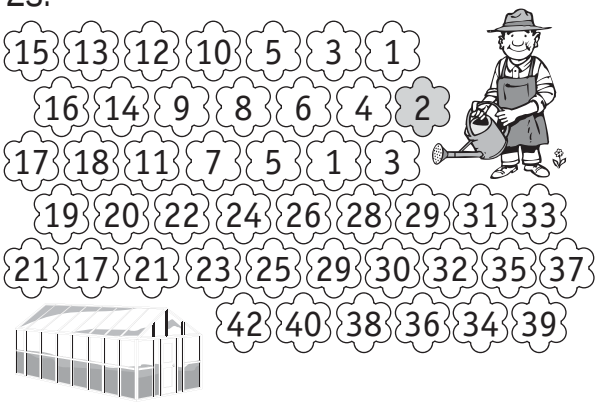
Find and colour this shape inside the grid.





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

level 2.2

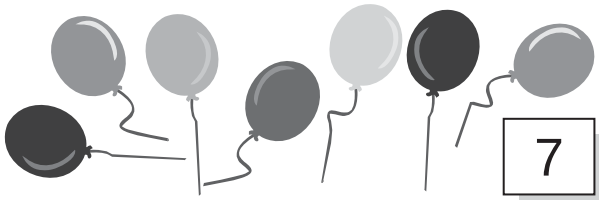
Name: .....

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

Parent's Signature: .....

1. [Counting]

How many balloons are there?



7

2. [Addition / Subtraction]

Complete the addition.

plus

6 + 5 = 11

3. [Multiplication / Division]

How many groups of 5 books?

5

4. [+ Whole Numbers]

6 add on 4 is

10

5. [– Whole Numbers]

19 subtract 6 makes

13

6. [× Whole Numbers]

9 multiplied by 2 is

18

7. [÷ Whole Numbers]

20 shared between 5 is

4

8. [Word Problems]

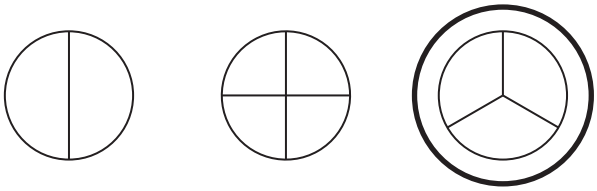
In the wild a lion sleeps for about 13 hours each day. A koala sleeps 9 hours more each day. For how many hours each day does a koala sleep?

[Write the number sentence.]

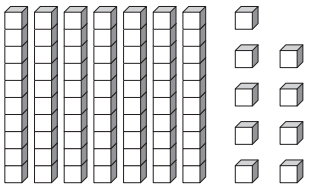
13 + 9 = 22 h

9. [Fractions]

Circle the picture that shows thirds.



10. [Place Value]



7 tens 9 ones = 79

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?

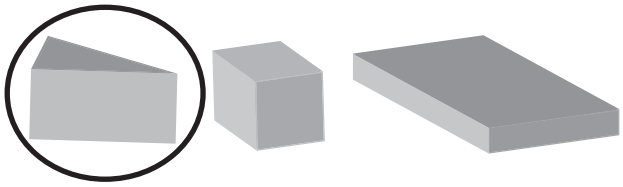
Thursday

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

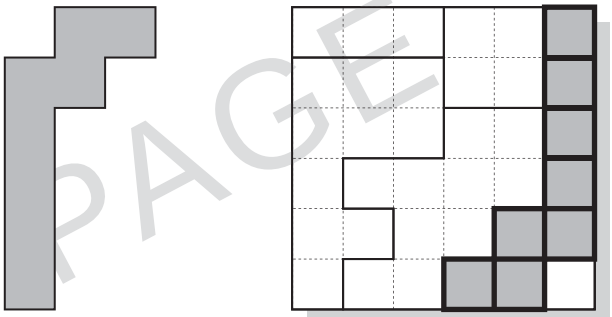
Earth	Mars	Pluto	Venus
☾	☾ ☾	☾	

Key: ☾ = 1 moon

2

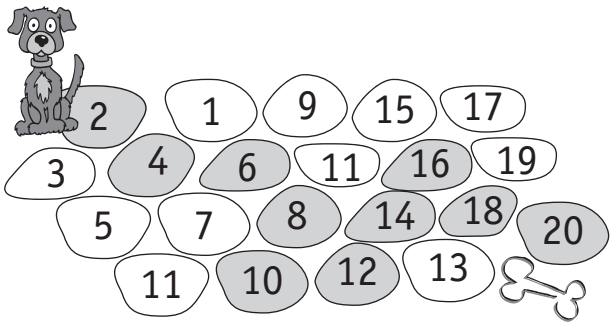
19. [Problem Solving 1]

Find and colour this shape inside the grid.



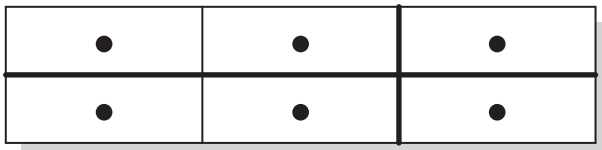
20. [Problem Solving 2]

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

level 2.2

Name: .....

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

Parent's Signature: .....

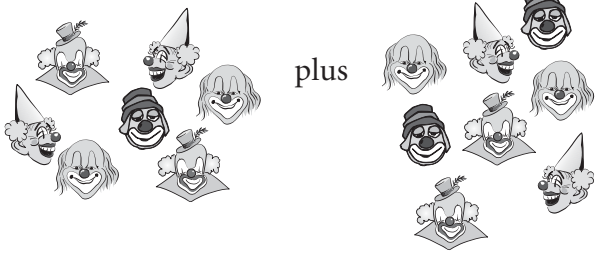
1. [Counting]

How many butterflies are there?

5

2. [Addition / Subtraction]

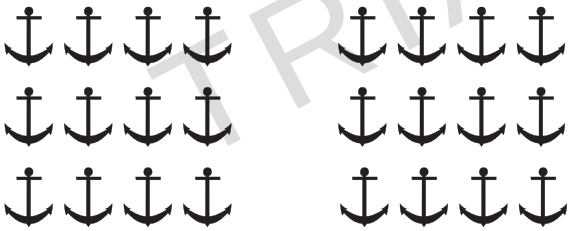
Complete the addition.



7 + 8 = 15

3. [Multiplication / Division]

How many groups of 4 anchors?



6

4. [+ Whole Numbers]

The sum of 8 and 7 is

15

5. [– Whole Numbers]

140 minus 10 equals

130

6. [× Whole Numbers]

9 lots of 5 are

45

7. [÷ Whole Numbers]

36 divided by 6 is

6

8. [Word Problems]

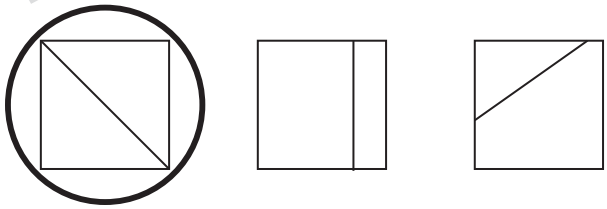
The first mandarin that Frankie ate had 18 pips, but the second only had 14 pips. How many pips in total?

[Write the number sentence.]

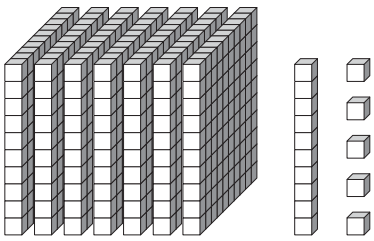
18 + 14 = 32

9. [Fractions]

Circle the picture that shows halves.



10. [Place Value]



7 hundreds 1 ten 5 ones = 715

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

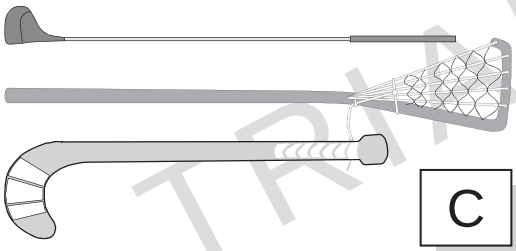
15. [Measuring]

Which stick is the shortest?

A)

B)

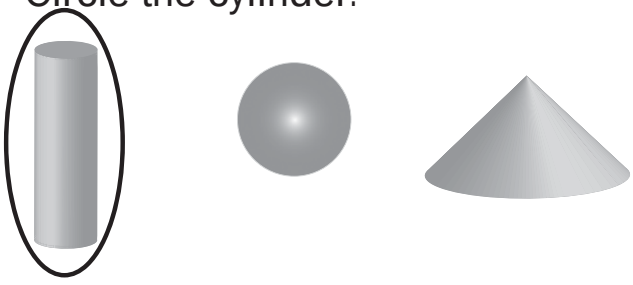
C)



C

16. [Shapes]

Circle the cylinder.



17. [Location]

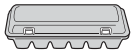
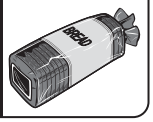
Is the gift 'on' or 'under' the tree?

under

18. [Statistics / Probability]

How much is the loaf of bread?

Cost of everyday items

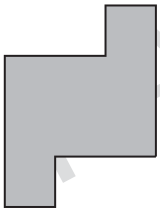
$ $	$ $ $	$ $ $	$ $ $
			

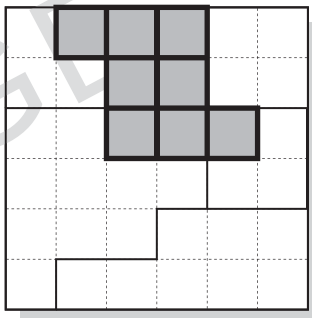
Each $ = 1 dollar

3 dollars

19. [Problem Solving 1]

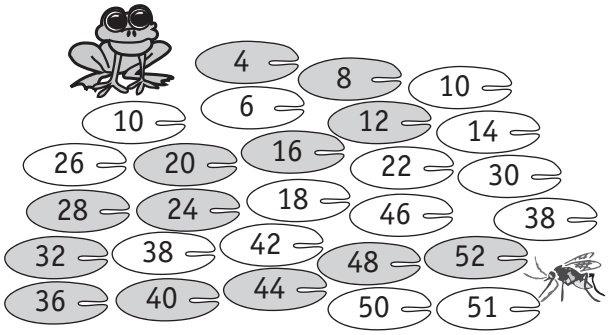
Find and colour this shape inside the grid.





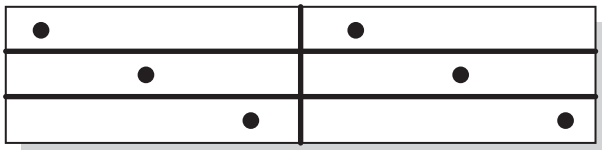
20. [Problem Solving 2]

Start at 4. Colour the lilypad 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

level 2.2

Name: .....

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

Parent's Signature: .....

1. [Counting]

How many ghosts are there?

9

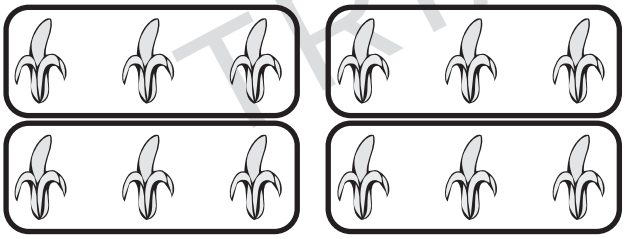
2. [Addition / Subtraction]

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]

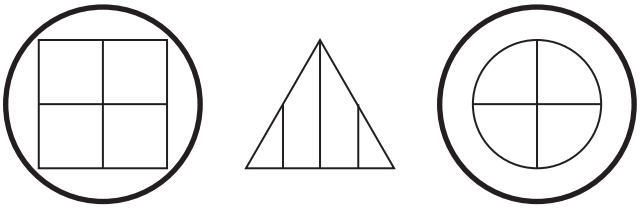
The annual average maximum temperature in the USA is 17°C and in India is 14°C higher. What is the annual average maximum temperature in India?

[Write the number sentence.]

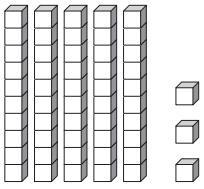
17 + 14 = 31 °C

9. [Fractions]

Circle the pictures that show quarters.



10. [Place Value]



5 tens 3 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]

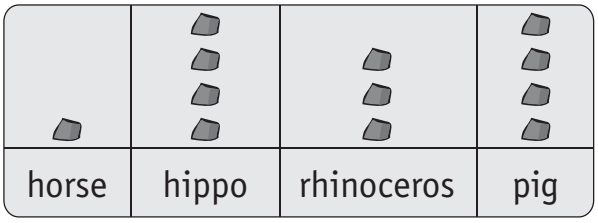
Is the bird 'above' or 'below' the scarecrow?

above

18. [Statistics / Probability]

How many toes does a pig have on each foot?

Hoofed animals - Number of toes on a foot

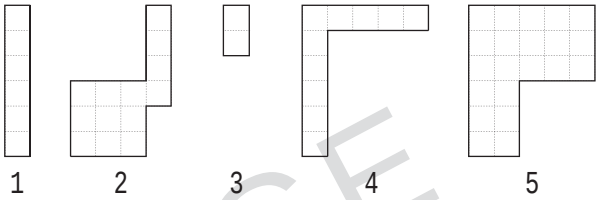


horse	hippo	rhinoceros	pig

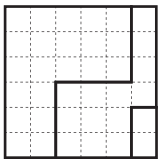
Key: = 1 toe

4

19. [Problem Solving 1]



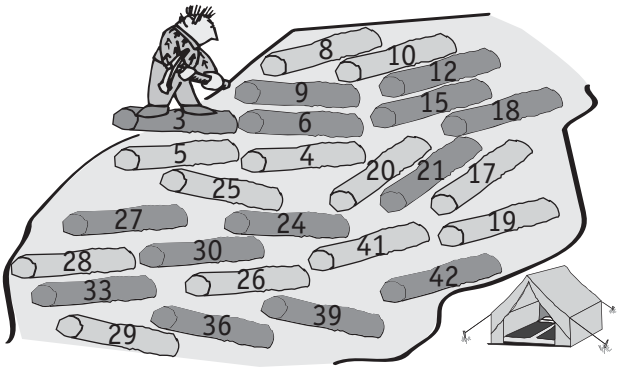
Which shapes were used to complete the square?



2 , 3 and 5

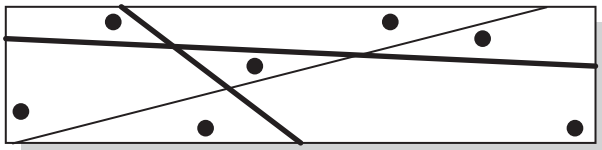
20. [Problem Solving 2]

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

level 2.2

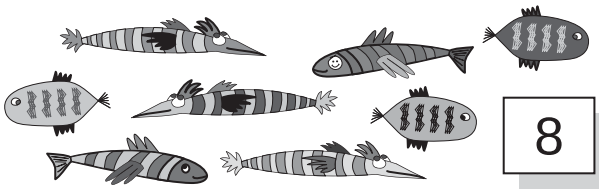
Name: .....

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

Parent's Signature: .....

1. [Counting]

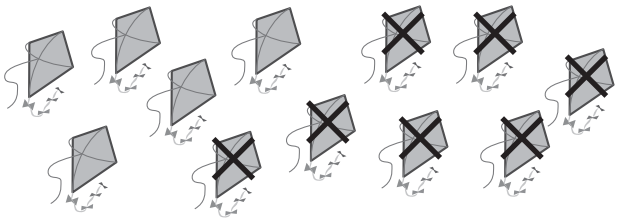
How many fish are there?



8

2. [Addition / Subtraction]

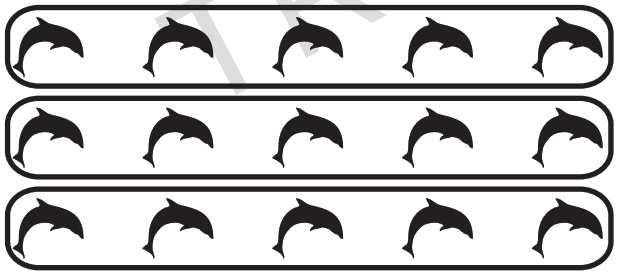
Take away 7.



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]

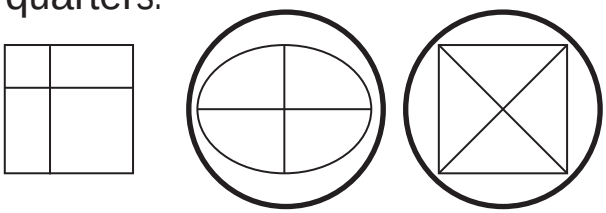
The maximum capacity of a Boeing 787 is 290 passengers. The maximum capacity of an Airbus A380 is 850 passengers. What is their combined maximum capacity?

[Write the number sentence.]

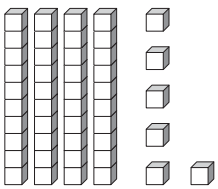
290 + 850 = 1140

9. [Fractions]

Circle the pictures that show quarters.



10. [Place Value]



4 tens 6 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

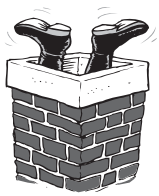
16. [Shapes]

What shape is this object?

cone

17. [Location]

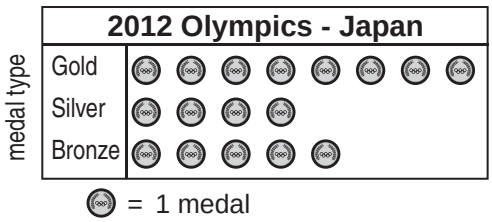
Is most of Santa 'inside' or 'outside' the chimney?



inside

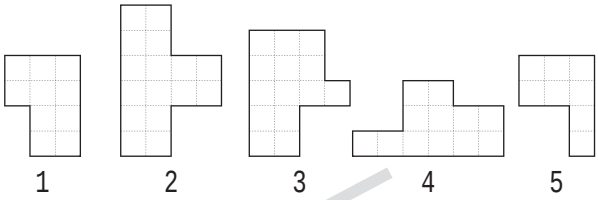
18. [Statistics / Probability]

How many more gold medals than silver medals did Japan win in the 2012 Olympics?

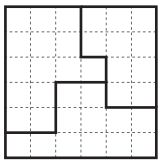


4

19. [Problem Solving 1]



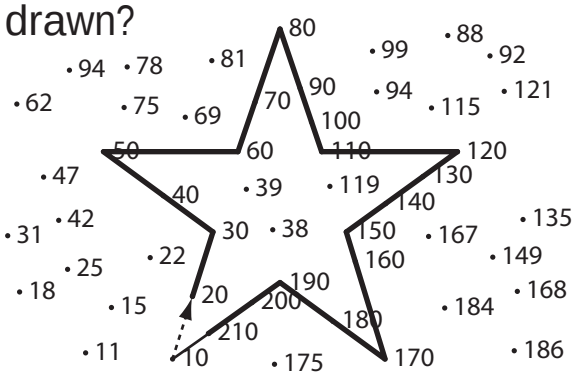
Which shapes were used to complete the square?



1 , 3 and 4

20. [Problem Solving 2]

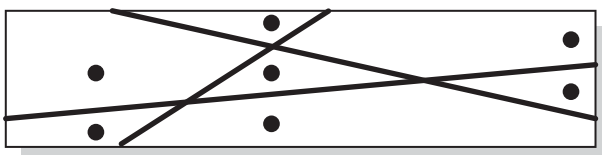
Start at 10. Connect the dots by counting by 10s. What have you drawn?



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.]



MATHS MATE level 2.2

Test 1

Covering worksheets 1.1 - 1.4

Name: .....

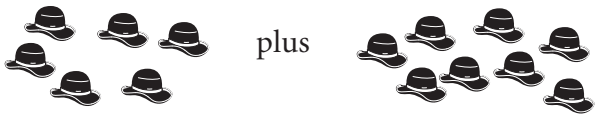
1. [Counting]

How many candles are there?

11

2. [Addition / Subtraction]

Complete the addition.



plus

6 + 8 = 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]

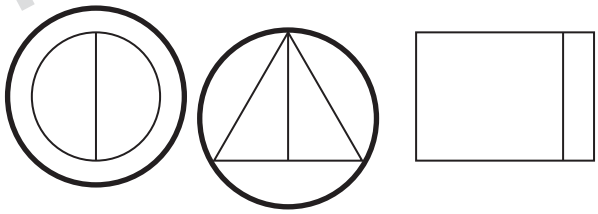
The annual average maximum temperature in China is 13°C and in Australia is 15°C higher. What is the annual average maximum temperature in Australia?

[Write the number sentence.]

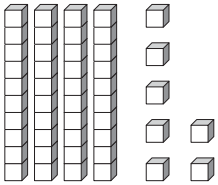
13 + 15 = 28 °C

9. [Fractions]

Circle the pictures that show halves.



10. [Place Value]



4 tens 7 ones = 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]

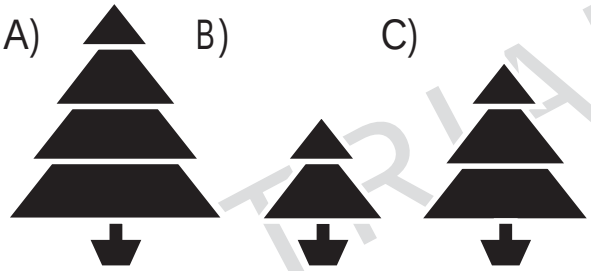
Yesterday was Thursday. What day is today?

Friday

15. [Measuring]

Which Christmas tree is the shortest?

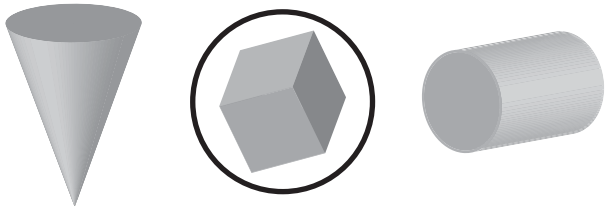
A) B) C)



B

16. [Shapes]

Circle the cube.



17. [Location]

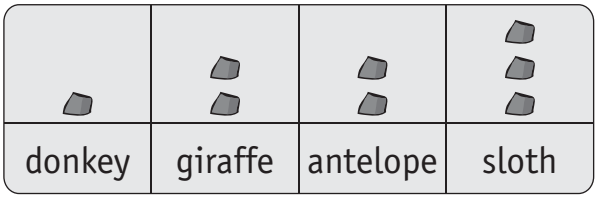
Is most of the rubbish 'inside' or 'outside' the bin?

inside

18. [Statistics / Probability]

How many toes does a giraffe have on each foot?

Hoofed animals - Number of toes on a foot

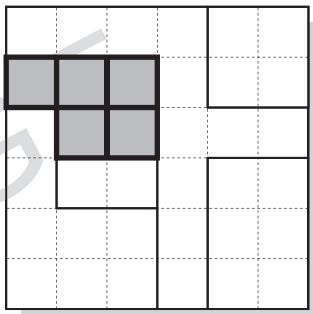


Key: = 1 toe

2

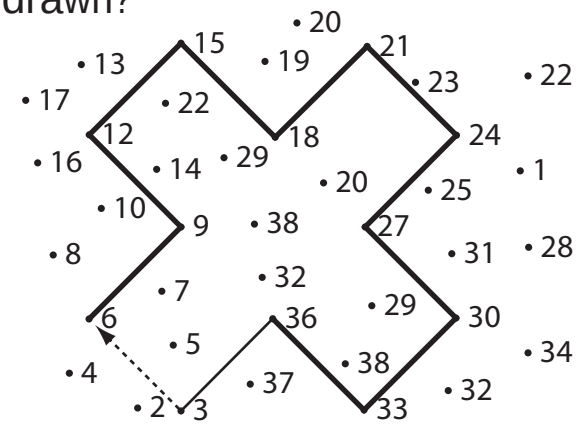
19. [Problem Solving 1]

Find and colour this shape inside the grid.



20. [Problem Solving 2]

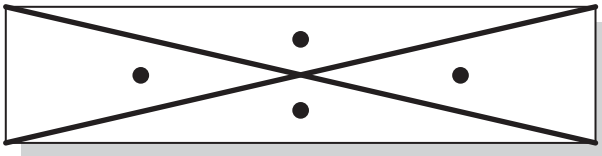
Start at 3. Connect the dots by counting by 3s. What have you drawn?



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.]



MATHS MATE level 2.2

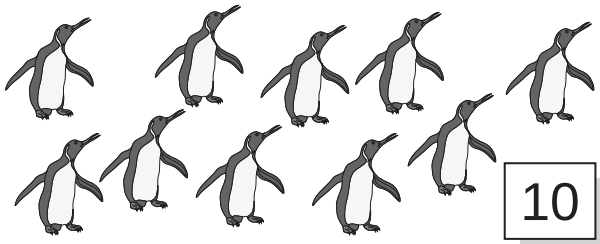
Test 1

Covering worksheets 1.1 - 1.4

Name: .....

1. [Counting]

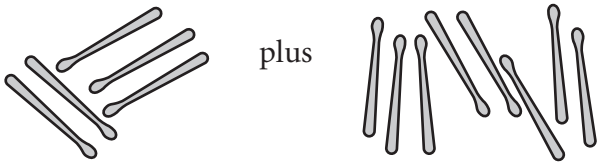
How many penguins are there?



10

2. [Addition / Subtraction]

Complete the addition.



plus

5 + 8 = 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]

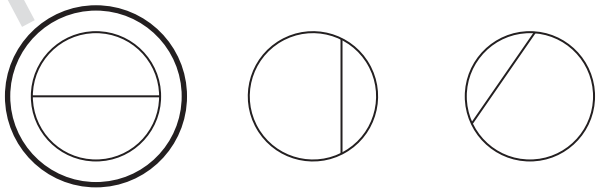
The annual average maximum temperature in Germany is 12°C and in Niger is 23°C higher. What is the annual average maximum temperature in Niger?

[Write the number sentence.]

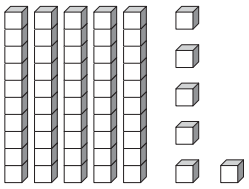
12 + 23 = 35 °C

9. [Fractions]

Circle the picture that shows halves.



10. [Place Value]



5 tens 6 ones = 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

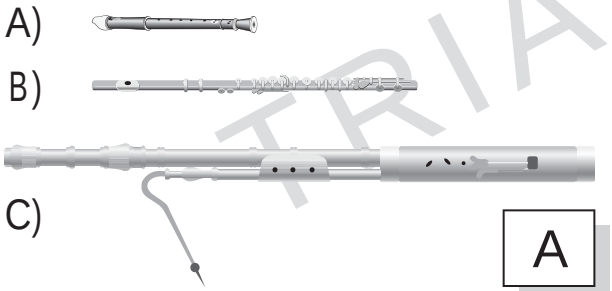
15. [Measuring]

Which musical instrument is the shortest?

A)

B)

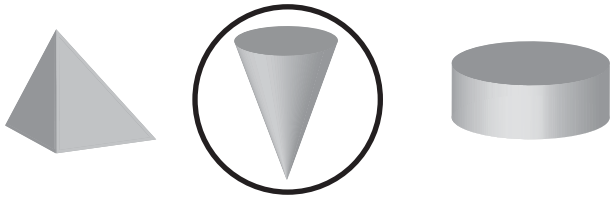
C)



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

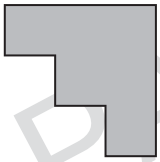
$ $	$ $ $ $	$ $ $	$ $ $
			

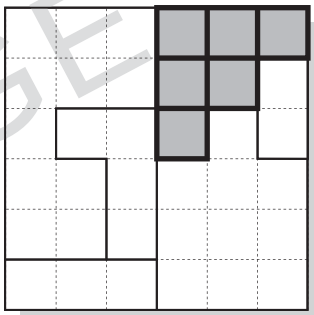
Each $ = 1 dollar

3 dollars

19. [Problem Solving 1]

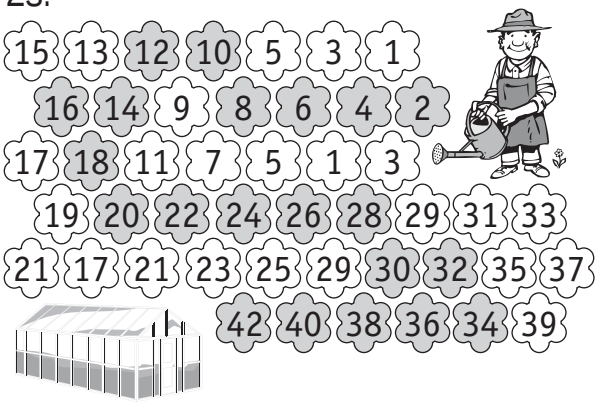
Find and colour this shape inside the grid.





20. [Problem Solving 2]

Start at 2. Colour the flower path to the greenhouse by counting by 2s.

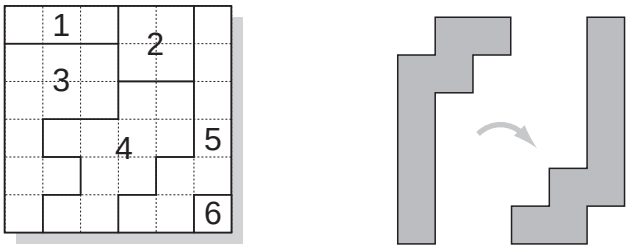


21. [Problem Solving 3]

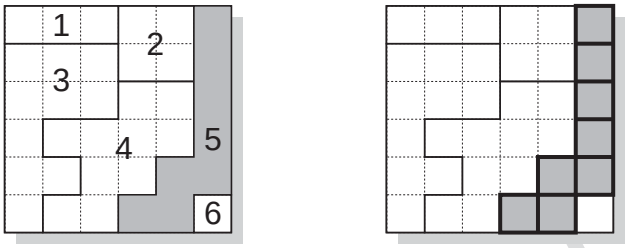
Draw 2 straight lines to separate the dots so that one dot is in each area. [Hint: A ruler may help.]

1.1

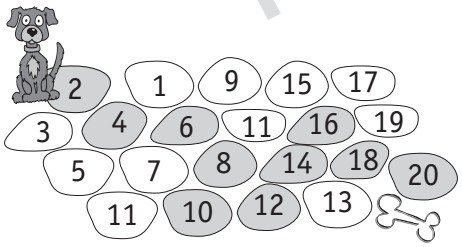
19. **Hint:** Identify the 6 different shapes on the grid.
OR Trace and cut out the shape and lay it over the grid.
Solution: Consider each of the 6 different outlined shapes in the grid.



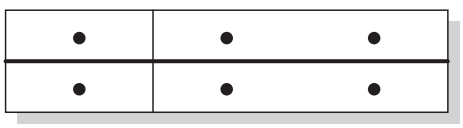
The shape can be found in position 5.



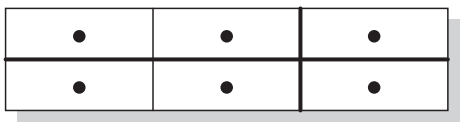
20. **Hint:** Count by 2s and write down the results to 20.
Solution: Start at 2. Write a list counting by 2s to 20.
2, 4, 6, 8, 10, 12, 14, 16, 18, 20 (all even numbers)
Colour the numbers on the path in order.



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.

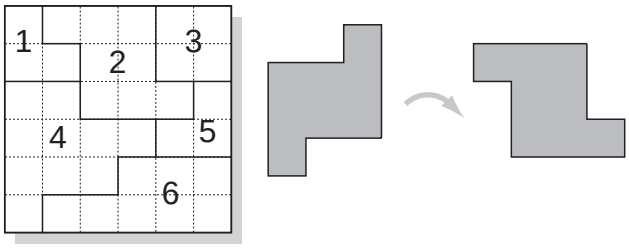


Adding a vertical line results in 6 areas.

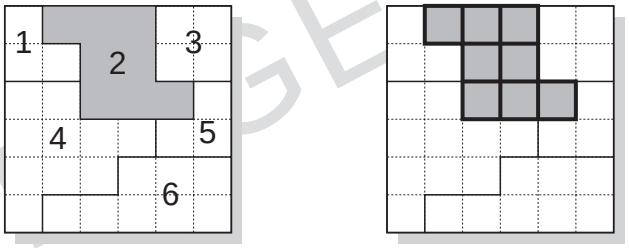


1.2

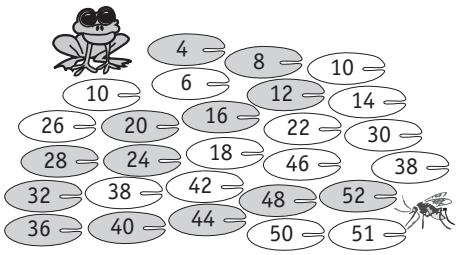
19. **Hint:** Identify the 6 different shapes on the grid.
OR Trace and cut out the shape and lay it over the grid.
Solution: Consider each of the 6 different outlined shapes in the grid.



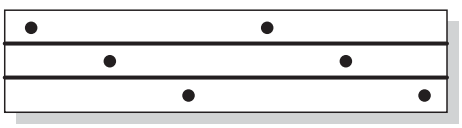
The shape can be found in position 2.



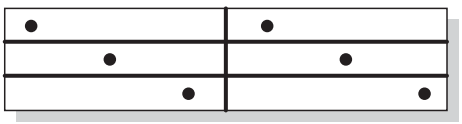
20. **Hint:** Count by 4s and write down the results to 52.
Solution: Start at 4. Write a list counting by 4s to 52.
4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52
(all even numbers)
Colour the numbers on the path in order.



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.
Two horizontal lines will separate the dots into rows.
This produces 3 areas.

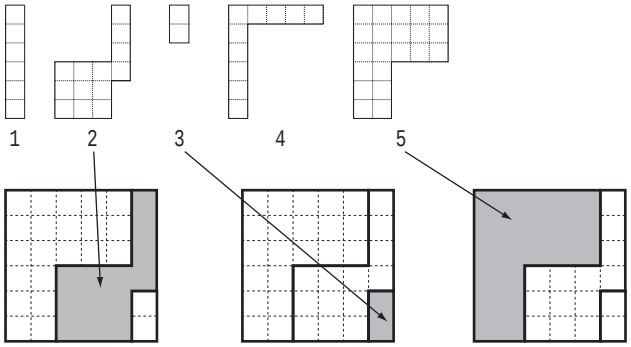


Adding a vertical line results in 6 areas.



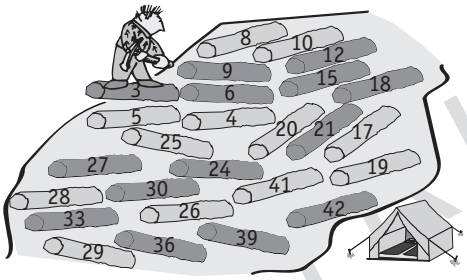
1.3

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.

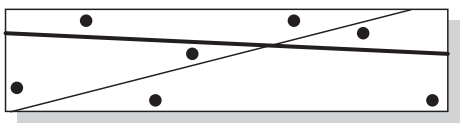


The shapes **2**, **3** and **5** were used to complete the grid.

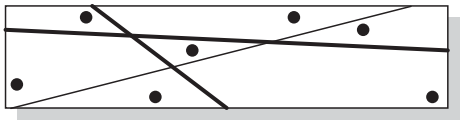
20. **Hint:** Count by 3s and write down the results to 42.
Solution: Start at 3. Write a list counting by 3s to 42.
3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42
Colour the numbers on the path in order.



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.

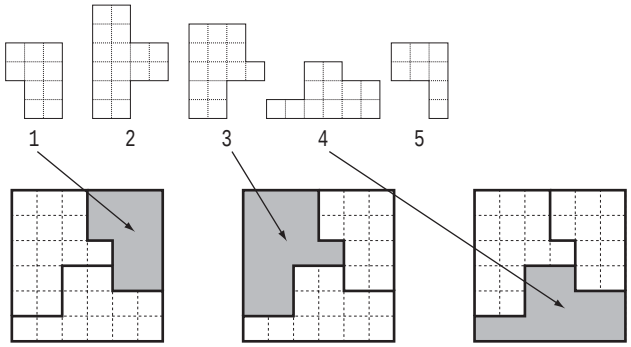


Adding another line results in 7 areas.



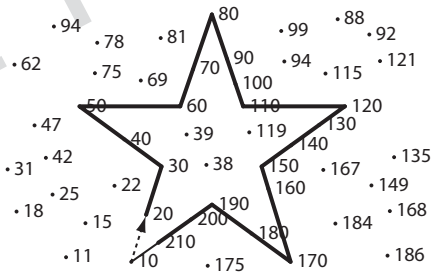
1.4

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.



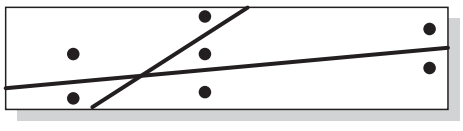
The shapes **1**, **3** and **4** were used to complete the grid.

20. **Hint:** Count by 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.

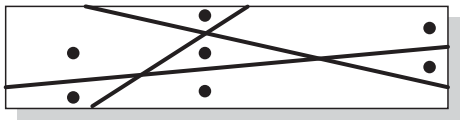


A **star** has been drawn.

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 bottom row of 3 dots.
Draw another line with 3 dots on the left.
This will produce 4 areas.



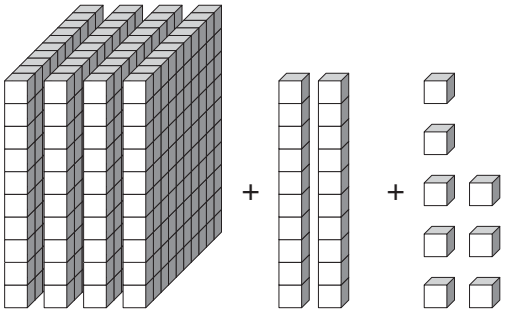
Draw another line with 3 dots on the right.
This will produce 7 areas.



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

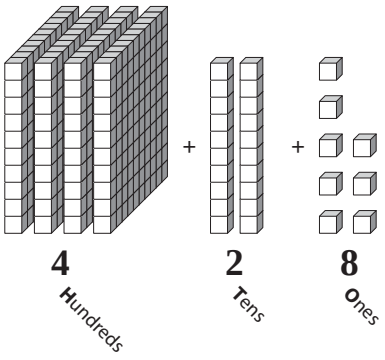
- Write the total number of 10 × 10 blocks in the hundreds place.
- Write the total number of 1 × 10 blocks in the tens place.
- Write the total number of minis in the ones place.

Q. Complete the addition.

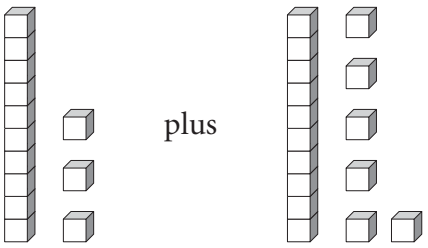


400 + 20 + 8 = ☐

A. *400 + 20 + 8* = ***428***

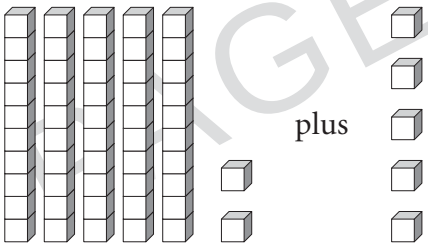


a) Complete the addition.



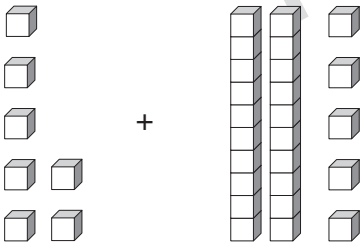
13 + 16 = 29

b) Complete the addition.



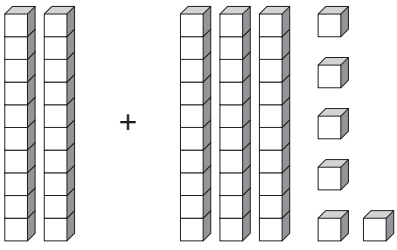
52 + 5 = ☐

c) Complete the addition.



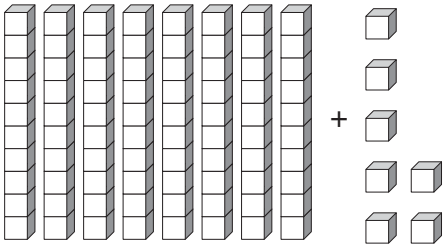
7 + 15 = ☐

d) Complete the addition.



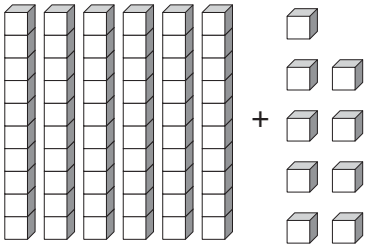
20 + 36 = ☐

e) Complete the addition.



80 + 7 = ☐

f) Complete the addition.

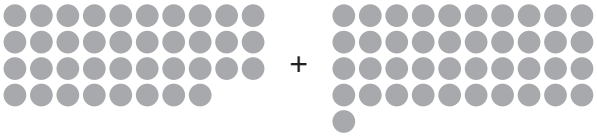


60 + 9 = ☐

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.



38 + ☐ = ☐

A. *38 + **41** = **79***

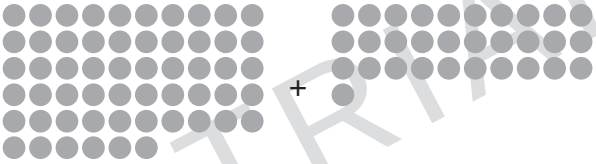
a) Complete the number sentence.

16 + 30 = 46

b) Complete the number sentence.

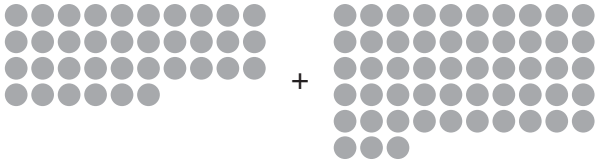
27 + ☐ = ☐

c) Complete the number sentence.



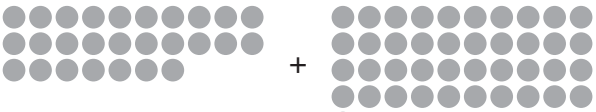
☐ + 31 = ☐

d) Complete the number sentence.



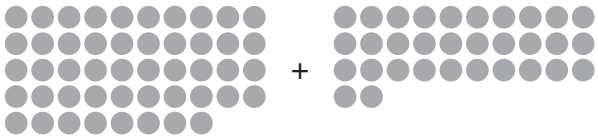
☐ + 53 = ☐

e) Complete the number sentence.



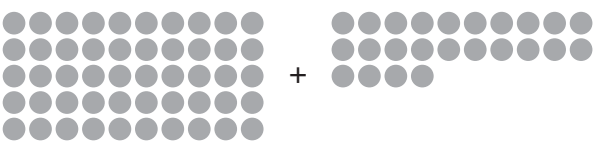
27 + ☐ = ☐

f) Complete the number sentence.



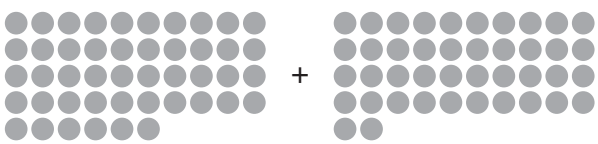
☐ + 32 = ☐

g) Complete the number sentence.



50 + ☐ = ☐

h) Complete the number sentence.



46 + ☐ = ☐