

Year 6 Spring 2 Maths Activity Mat

1

Order the following numbers from smallest to largest:

77 677, 76 767, 77 776, 76 676

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1

Simplify the following fractions.

$$\frac{6}{9}$$
$$\frac{4}{8}$$

4

I have one curved face and I look like a ball. What am I?

7

Here are some estimated answers to some calculations. Tick the reasonable estimates.

- ☐ $390 \times 5 \approx 2000$
- ☐ $7021 - 2978 \approx 5000$
- ☐ $279 \div 4 \approx 70$

2

Calculate:

$$0.2 \times 10 =$$

$$0.7 \times 10 =$$

$$0.4 \times 10 =$$

5

Convert the following:

$$2\text{ l} = \text{_____ ml}$$

$$\text{_____ l} = 5000 \text{ ml}$$

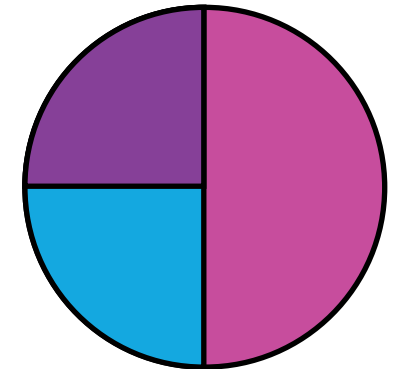
6

Some children research children's favourite sports. They show the results in a pie chart colour.

- ☐ football
- ☐ tennis
- ☐ athletics

15 children chose tennis. How many children chose football?

8



3

A teacher organises 172 children into groups of six children. How many groups of six children will there be?

Year 6 Spring 2 Maths Activity Mat

2

What is the digit in the ten thousands place in the number 672 091?

1

A farmer has 2487 animals. There are 567 cows and 892 sheep. The rest are chickens. How many chickens does the farmer have?

2

Calculate:

$$6 \overline{)2478}$$

3

Use <, =, or > to compare these fractions.

$$\frac{5}{2}$$

$$\frac{10}{4}$$

$$\frac{6}{4}$$

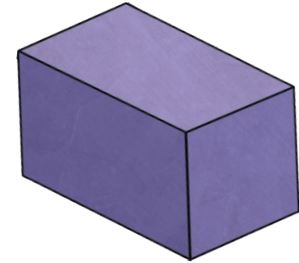
$$\frac{9}{8}$$

$$\frac{7}{5}$$

$$\frac{17}{10}$$

4

Name this shape.



7

Calculate:

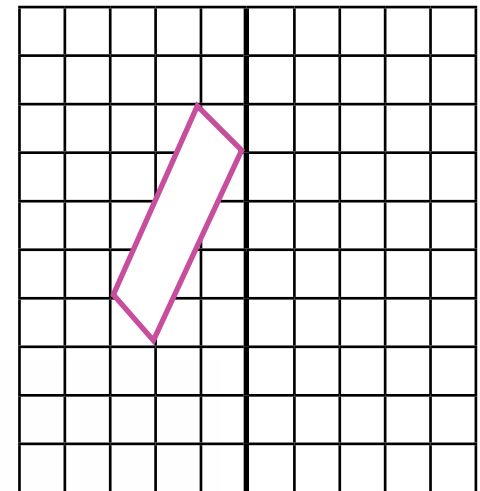
$$0.3 \times 5 =$$

$$0.4 \times 3 =$$

$$0.6 \times 9 =$$

5

Reflect this shape about the thick black vertical line.



8

1 mile \approx 1600m

How many 400m laps of a track makes one mile?

6

Year 6 Spring 2 Maths Activity Mat

3

1 Round the following numbers to the nearest one million.

5 672 396 →

8 500 000 →

1 499 999 →

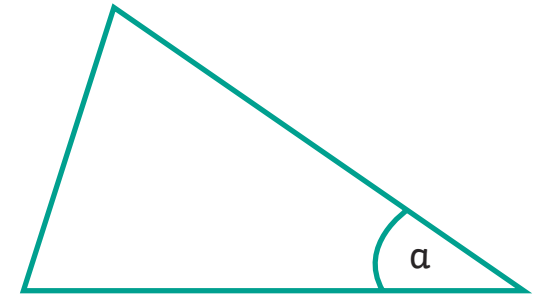
4 Calculate:

$$\frac{1}{2} \times \frac{1}{2} =$$

$$\frac{1}{2} \times \frac{1}{5} =$$

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

7 Estimate angle a. _____



2 Use this Carroll diagram to write the common factors of 12 and 15.

	Factor of 16	Not a factor of 16
Factor of 24		
Not a factor of 24		

5 Calculate, writing the answer as a decimal:

$$4 \overline{)138}$$

8 Find three pairs of numbers that satisfy these equations:

$$a + b = 14$$

$$c - d = 2$$

3 Half a number is 29. What is the number?

6 Calculate the area and perimeter of the following rectangle.

Area =

Perimeter =



Year 6 Spring 2 Maths Activity Mat

4

1
The difference between the temperature in a fridge and a freezer is 23°C ? The freezer is at -19°C . What is the temperature in the fridge? _____

4
Circle the odd one out.

$\frac{1}{2}$ $\frac{3}{6}$ $\frac{5}{8}$ 0.5

7
Describe the circumference of a circle.

2
Calculate in your head:

$$25 + 52 =$$

$$58 + 23 =$$

$$97 - 66 =$$

$$71 - 34 =$$

5
The record for the most runs in test cricket is held by Sachin Tendulkar of India with 15 921 runs. Round this to the nearest 10, 100 and 1000 runs.

8
Find the mean of these numbers:

4, 8, 7, 2, 5

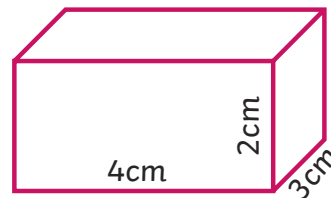
3
Calculate:

$$5 \times (4 + 1) =$$

$$4 + 3 \times 5 =$$

$$(21 - 3) \div 6 =$$

6
Calculate the volume of this cuboid.



Volume = _____

Year 6 Spring 2 Maths Activity Mat

5

Use these clues to find the number:

- It is between 2000 and 2050
- It is a multiple of four.
- The sum of the digits is nine.

Calculate:

$$\begin{array}{r} 3094 \\ \times 17 \\ \hline \end{array}$$

Write 1.75 as an improper fraction?

1

A shop sells three sizes of Easter eggs. Altogether it sells 2481 eggs, of which 718 are large and 653 are medium size. How many small eggs did the shops sell?

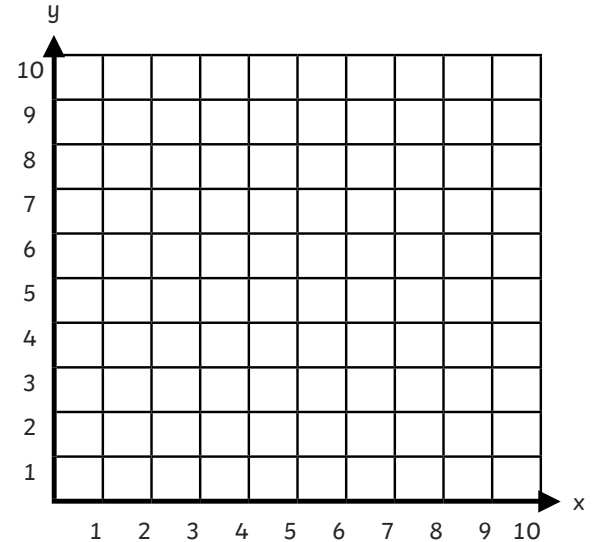
Complete:

$$\frac{1}{2} \div 3 =$$

$$\frac{1}{3} \div 4 =$$

A four-litre carton of water is shared equally into eight bottles. How much water will be in each bottle?

Draw a kite on this coordinates grid using the coordinates: (5,8) (9,6) (5,1) (1,6).



a and b are whole numbers between 7 and 12. Write all the combinations showing the possible values of a and b where:

$$a + b = 19$$

2

4

5

6

7

8

3

Year 6 Spring 2 Maths Activity Mat

6

1 A bag of mini chocolate eggs contains five milk chocolate eggs and three plain chocolate eggs. Genesia would like 12 plain chocolate eggs. How many milk chocolate eggs will she have?

$$y = 2x + 1$$

If $x = 5$, what is y ? _____

If $y = 5$, what is x ? _____

3 Calculate:

20% of £15 =

75% of £40 =

4 Calculate:

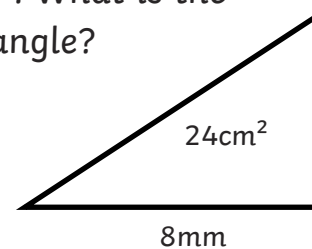
$$\frac{2}{5} + \frac{3}{10} =$$

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

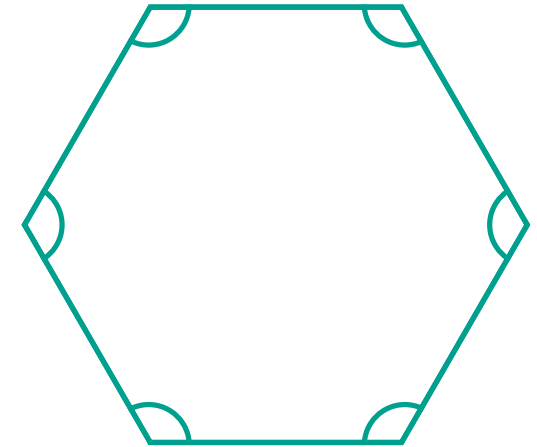
5 For Comic Relief, a class of children pay £2 each to wear pyjamas. 28 children wear pyjamas. They also raise money by selling cakes. Altogether, the class raise £72.50. How much did selling the cakes raise?

6 This right-angled triangle has an area of 24cm^2 . What is the height of the triangle?

Height: _____



7 Calculate the angles in this hexagon:



8 Express the answer to this word problem algebraically, using h to represent the number of hours Nieve is awake in a day, when she sleeps for nine hours.

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1

Order the following numbers from smallest to largest:

77 677, 76 767, 77 776, 76 676

76 676	76 767	77 677	77 776
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1

Simplify the following fractions.

$$\frac{6}{9} \rightarrow \frac{2}{3}$$

$$\frac{4}{8} \rightarrow \frac{1}{2}$$

4

I have one curved face and I look like a ball. What am I?

Sphere

7

Here are some estimated answers to some calculations. Tick the reasonable estimates.

☒ $390 \times 5 \approx 2000$

☐ $7021 - 2978 \approx 5000$

☒ $279 \div 4 \approx 70$

2

Calculate:

$$0.2 \times 10 = 2$$

$$0.7 \times 10 = 7$$

$$0.4 \times 10 = 4$$

5

Convert the following:

$$2\text{l} = 2000\text{ml}$$

$$5\text{l} = 5000\text{ ml}$$

6

A teacher organises 172 children into groups of six children. How many groups of six children will there be?

28 groups (four children left over)

3

Some children research children's favourite sports. They show the results in a pie chart colour.

☐ football

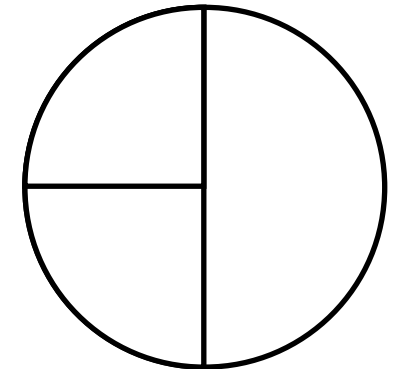
☐ tennis

☐ athletics

15 children chose tennis.

How many children chose football?

30



8

Year 6 Spring 2 Maths Activity Mat

2

What is the digit in the ten thousands place in the number 672 091?

7

1

A farmer has 2487 animals. There are 567 cows and 892 sheep. The rest are chickens. How many chickens does the farmer have?

1028 chickens

2

Calculate:

413

6 $\overline{)2478}$

3

Use <, =, or > to compare these fractions.

$$\frac{5}{2} = \frac{10}{4}$$

$$\frac{6}{4} > \frac{9}{8}$$

$$\frac{7}{5} < \frac{17}{10}$$

4

Calculate:

$$0.3 \times 5 = \mathbf{1.5}$$

$$0.4 \times 3 = \mathbf{1.2}$$

$$0.6 \times 9 = \mathbf{5.4}$$

5

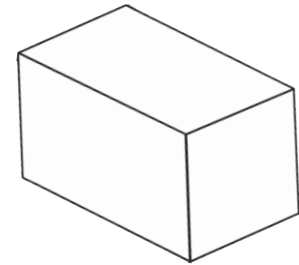
1 mile \approx 1600m

How many 400m laps of a track makes one mile?

four laps

6

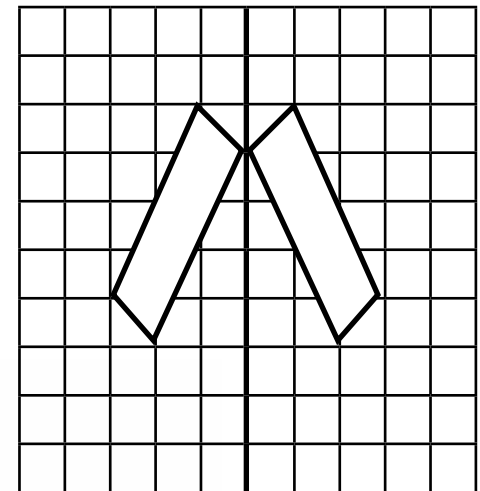
Name this shape.



square prism, cuboid

7

Reflect this shape about the thick black vertical line.



8

Year 6 Spring 2 Maths Activity Mat

3

Round the following numbers to the nearest one million.

5 672 396 → **6 000 000**

8 500 000 → **9 000 000**

1 499 999 → **1 000 000**

Use this Carroll diagram to write the common factors of 12 and 15.

	Factor of 16	Not a factor of 16
Factor of 24	1,2,4,8	3,6,12
Not a factor of 24	16	5,7,9,10, 11,13,14,15, 17-23,25 and higher

Half a number is 29. What is the number?

58

Calculate:

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$$

$$\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$$

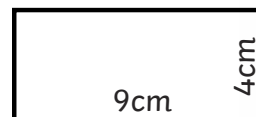
Calculate, writing the answer as a decimal:

$$\begin{array}{r} 34.5 \\ 4 \overline{) 138} \end{array}$$

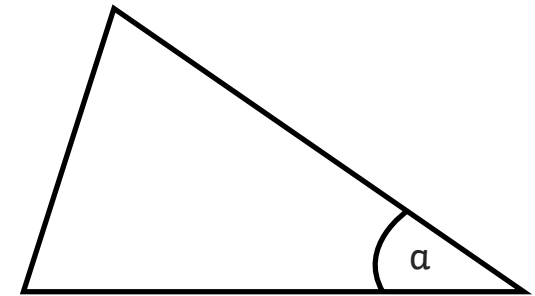
Calculate the area and perimeter of the following rectangle.

Area = **36cm²**

Perimeter = **26cm**



Estimate angle a. 35°



Find three pairs of numbers that satisfy these equations:

$$a + b = 14$$

$$a = 13, b = 1;$$

$$a = 12, b = 2;$$

$$a = 11, b = 3$$

$$c - d = 2$$

$$c = 10, d = 8;$$

$$c = 9, d = 7;$$

$$c = 8, d = 2$$

Year 6 Spring 2 Maths Activity Mat

4

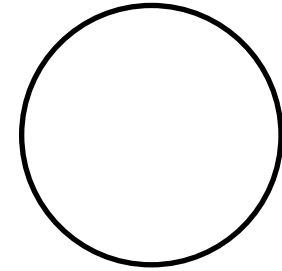
The difference between the temperature in a fridge and a freezer is 23°C ? The freezer is at -19°C . What is the temperature in the fridge?

4°C

Circle the odd one out.

$\frac{1}{2}$ $\frac{3}{6}$ $\frac{5}{8}$ 0.5

Describe the circumference of a circle.



Calculate in your head:

$$25 + 52 = 77$$

$$58 + 23 = 81$$

$$97 - 66 = 31$$

$$71 - 34 = 37$$

The record for the most runs in test cricket is held by Sachin Tendulkar of India with 15 921 runs. Round this to the nearest 10, 100 and 1000 runs.

15 920, 15 900, 16 000

Find the mean of these numbers:

4, 8, 7, 2, 5

5.2

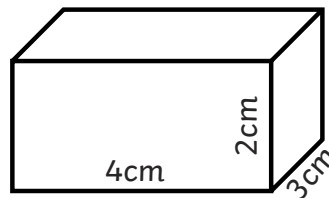
Calculate:

$$5 \times (4 + 1) = 25$$

$$16 - 3 \times 5 = 1$$

$$(21 - 3) \div 6 = 3$$

Calculate the volume of this cuboid.



$$2\text{cm} \times 4\text{cm} \times 3\text{cm} = 24\text{cm}^3$$

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5

Use these clues to find the number:

- It is between 2000 and 2050
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- The sum of the digits is nine.

2016

1

A shop sells three sizes of Easter eggs. Altogether it sells 2481 eggs, of which 718 are large and 653 are medium size. How many small eggs did the shops sell?

1110

4

Calculate:

$$\begin{array}{r} 62 \\ 3094 \\ \times 17 \\ \hline 21658 \\ 30940 \\ \hline 52598 \\ 1 \end{array}$$

2

Complete:

$$\frac{1}{2} \div 3 = \frac{1}{6}$$

$$\frac{1}{3} \div 4 = \frac{1}{12}$$

5

A four-litre carton of water is shared equally into eight bottles. How much water will be in each bottle?

0.5l or 500ml

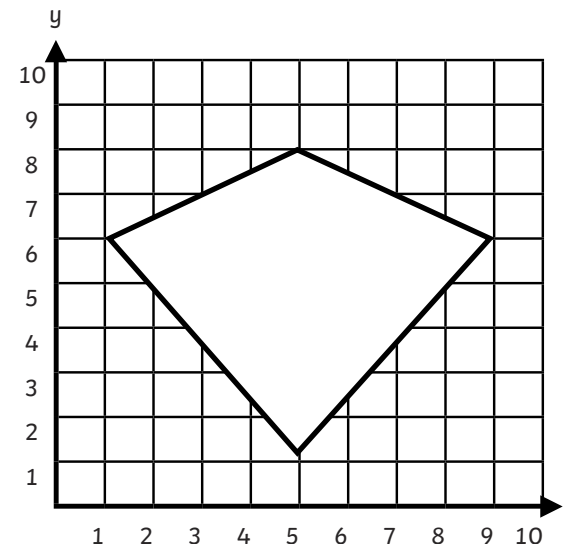
6

Write 1.75 as an improper fraction?

$$\frac{7}{4}$$

3

Draw a kite on this coordinates grid using the coordinates: (5,8) (9,6) (5,1) (1,6).



7

a and b are whole numbers between 7 and 12. Write all the combinations showing the possible values of a and b where:

$$a + b = 19$$

a = 8, b = 11; a = 9, b = 10; a = 10, b = 9; a = 11, b = 8

8

Year 6 Spring 2 Maths Activity Mat

6

1
A bag of mini chocolate eggs contains five milk chocolate eggs and three plain chocolate eggs. Genesia would like 12 plain chocolate eggs. How many milk chocolate eggs will she have?

20 milk chocolate eggs

2
 $y = 2x + 1$

$y = 11$

$x = 2$

3
Calculate:

20% of £15 = **£3**

75% of £40 = **£30**

4
Calculate:

$$\frac{2}{5} + \frac{3}{10} = \frac{7}{10}$$

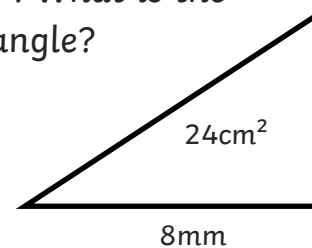
$$\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$$

5
For Comic Relief, a class of children pay £2 each to wear pyjamas. 28 children wear pyjamas. They also raise money by selling cakes. Altogether, the class raise £72.50. How much did selling the cakes raise?

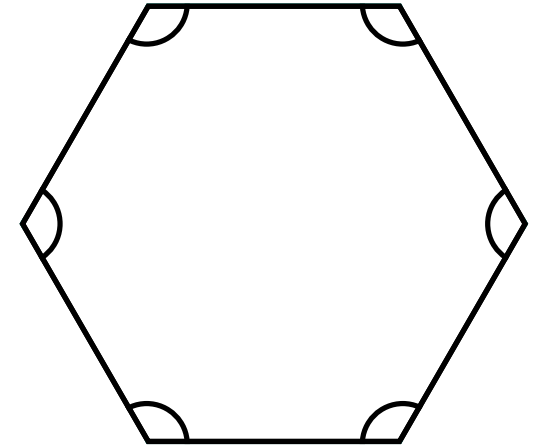
£16.50

6
This right-angled triangle has an area of 24cm^2 . What is the height of the triangle?

Height: **6cm**



7
Calculate the angles in this hexagon:



120°

8
Express the answer to this word problem algebraically, using h to represent the number of hours Nieve is awake in a day, when she sleeps for nine hours.

$24 = h + 9$, $9 = 24 - h$ or $h = 24 - 9$