

# Year 6 Spring 1 Maths Activity Mat 1

## Section 1

Order the following numbers from smallest to largest:

49 944    44 949    49 494    44 499    49 449

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smallest

largest

## Section 4

Simplify the following fractions:

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

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

## Section 2

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

$324 \times 5 \approx 1600$

$5069 + 2962 \approx 7000$

$818 \div 4 \approx 200$

## Section 3

A farmer picks 97 apples. He sells them in boxes of 12. How many boxes can he fill from the 97 apples?

## Section 7

Write a description of a cylinder.

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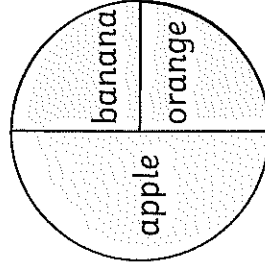
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## Section 8

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



32 children were asked about their favourite fruit. How many children chose each fruit?

Apple , Banana , Orange

## Section 5

Calculate:

$0.3 \times 10 =$

$0.6 \times 10 =$

$0.5 \times 10 =$

## Section 6

Convert the following:

1kg = \_\_\_\_\_g

\_\_\_\_\_kg = 2000g

# Year 6 Spring 1 Maths Activity Mat 1 - Answers

## Section 1

Order the following numbers from smallest to largest:

49 944	44 949	49 494	44 499	49 449	49 944
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smallest largest

## Section 4

Simplify the following fractions:

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

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

$$\frac{1}{2}$$

## Section 5

Calculate:

$$0.3 \times 10 = 3$$

$$0.6 \times 10 = 6$$

$$0.5 \times 10 = 5$$

## Section 2

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

$$324 \times 5 \approx 1600$$

$$5069 + 2962 \approx 7000$$

$$818 \div 4 \approx 200$$

## Section 3

A farmer picks 97 apples. He sells them in boxes of 12. How many boxes can he fill from the 97 apples?

8

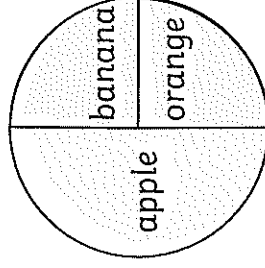
## Section 7

Write a description of a cylinder.

A cylinder has two faces that are circles and a curved face that joins each circle face. One circle is at the base of the shape, with the other circle immediately above the base, parallel to the base. Between the two circular faces is a curved surface, with circular edges joining the two circle faces.

## Section 8

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



32 children were asked about their favourite fruit. How many children chose each fruit?

Apple 16, Banana 8, Orange 8

# Year 6 Spring 1 Maths Activity Mat 2

## Section 1

What is the value of the digit in the thousands place in the number 806 564?

## Section 2

A theatre sells 782 tickets. 393 are adult tickets, 214 are student tickets. The rest are child tickets. How many child tickets are sold?

## Section 3

Calculate:

$$8 \overline{)5248}$$

## Section 4

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

$\frac{5}{3}$

$\frac{11}{6}$

$\frac{9}{8}$

$\frac{5}{4}$

$\frac{8}{5}$

$\frac{16}{10}$

## Section 5

Calculate:

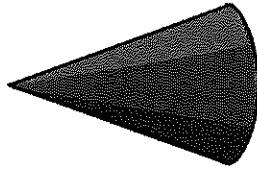
$0.5 \times 3 =$

$0.7 \times 2 =$

$0.9 \times 4 =$

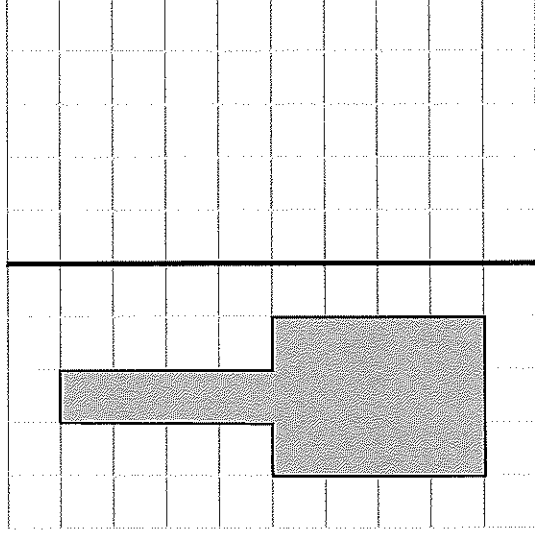
## Section 7

Name this shape.



## Section 8

Reflect this shape about the thick black vertical line.



## Section 6

5 miles is 8km.

How many miles in 24km?

# Year 6 Spring 1 Maths Activity Mat 2 - Answers

## Section 1

What is the value of the digit in the thousands place in the number 806 564?

6000

## Section 2

A theatre sells 782 tickets. 393 are adult tickets, 214 are student tickets. The rest are child tickets. How many child tickets are sold?

175

## Section 3

Calculate:

$$\begin{array}{r} 656 \\ 8 \overline{)5248} \end{array}$$

## Section 4

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

$\frac{5}{3}$

$<$

$\frac{11}{6}$

$\frac{9}{8}$

$<$

$\frac{5}{4}$

$\frac{8}{5}$

$=$

$\frac{16}{10}$

## Section 5

Calculate:

$0.5 \times 3 =$

1.5

$0.7 \times 2 =$

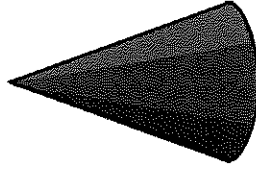
1.4

$0.9 \times 4 =$

3.6

## Section 7

Name this shape.



cone

## Section 6

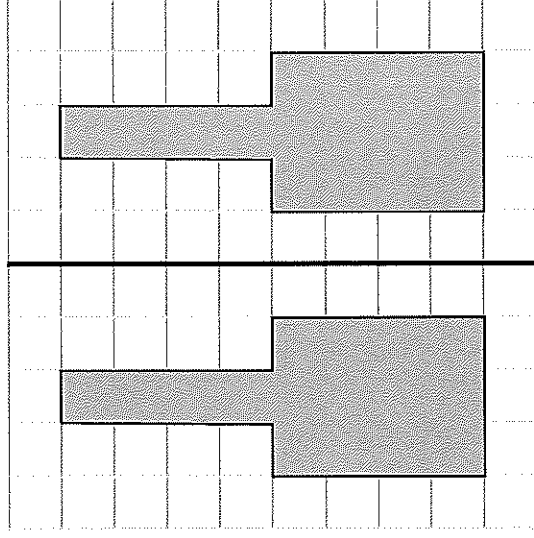
5 miles is 8km.

How many miles in 24km?

15 miles

## Section 8

Reflect this shape about the thick black vertical line.



# Year 6 Spring 1 Maths Activity Mat 3

## Section 1

Round the following numbers to the nearest 10 million.

4 500 000

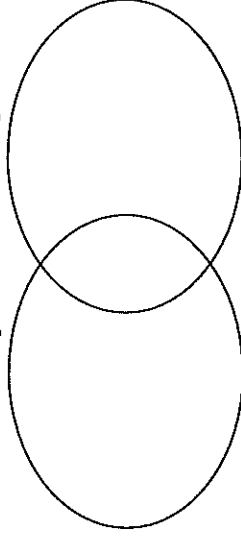
2478 375

7499 000

## Section 2

Use this Venn Diagram to write the common factors of 8 and 12.

Factors of 8      Factors of 12



## Section 3

Double a number is 42. What is the number?

## Section 4

Write two unit fractions that multiply to give  $\frac{1}{4}$ .

x

=

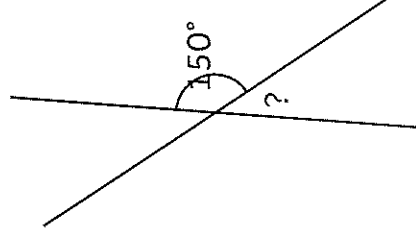
## Section 5

Calculate, writing the answer as a decimal:

$$4 \overline{)146}$$

## Section 7

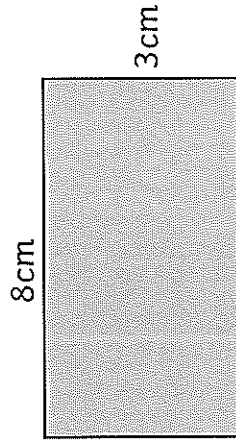
Calculate the unknown angle.



\*not to scale

## Section 6

Calculate the area and perimeter of the following rectangle.



area =

perimeter =

\*not to scale

## Section 8

Find three pairs of numbers that satisfy these equations:

$$a - b = 5$$

$$c + d = 12$$

# Year 6 Spring 1 Maths Activity Mat 3 - Answers

**Section 1**  
Round the following numbers to the nearest 10 million.

4 500 000      5 000 000

2478 375      2 000 000

7499 000      7 000 000

**Section 2**  
Use this Venn Diagram to write the common factors of 8 and 12.

Factors of 8      Factors of 12

**Section 3**  
Double a number is 42. What is the number?

21

**Section 4**  
Write two unit fractions that multiply to give  $\frac{1}{4}$ .

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

**Section 5**  
Calculate, writing the answer as a decimal:

$$\begin{array}{r} 36.5 \\ 4 \overline{)146} \end{array}$$

**Section 6**  
Calculate the area and perimeter of the following rectangle.

area = 24cm<sup>2</sup>

perimeter = 22cm

\*not to scale

**Section 7**  
Calculate the unknown angle.

30°

\*not to scale

**Section 8**  
Find three pairs of numbers that satisfy these equations:

$a - b = 5$   
 $c + d = 12$

$a = 6, b = 1; a = 7, b = 2;$   
 $a = 8, b = 3; c = 7, d = 5;$   
 $c = 8, d = 4; c = 9, d = 3$

# Year 6 Spring 1 Maths Activity Mat 4

## Section 1

At 6am the temperature is  $-5^{\circ}\text{C}$ . At 7pm the previous evening, the temperature was  $11^{\circ}\text{C}$  warmer. What was the temperature at 7pm?

## Section 2

Calculate in your head:

$42 + 35 =$

$37 + 29 =$

$67 - 44 =$

$93 - 56 =$

## Section 3

Calculate:

$3 \times (6-4) =$

$4 + 7 \times 3 =$

$(5 + 11) \div 4 =$

## Section 4

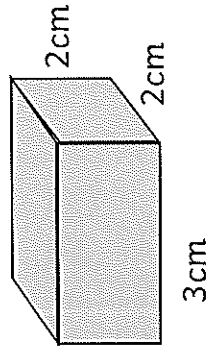
Write three fractions equivalent to  $\frac{1}{2}$ .

## Section 5

Enoch has 376 stamps in his stamp book and 75 to be stuck in the book. How many stamps has he altogether rounded to the nearest hundred.

## Section 6

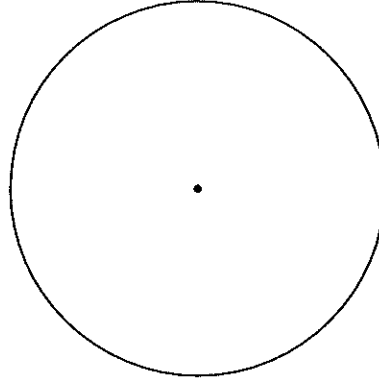
Calculate the volume of this cuboid.



\*not to scale

## Section 7

Draw the diameter of this circle.



## Section 8

Find the mean of these numbers:

2, 10, 7, 13

# Year 6 Spring 1 Maths Activity Mat 4 - Answers

## Section 1

At 6am the temperature is  $-5^{\circ}\text{C}$ . At 7pm the previous evening, the temperature was  $11^{\circ}\text{C}$  warmer. What was the temperature at 7pm?

6 $^{\circ}\text{C}$

## Section 2

Calculate in your head:

$$42 + 35 = 77$$

$$37 + 29 = 66$$

$$67 - 44 = 23$$

$$93 - 56 = 37$$

## Section 3

Calculate:

$$3 \times (6-4) = 6$$

$$4 + 7 \times 3 = 25$$

$$(5 + 11) \div 4 = 4$$

## Section 4

Write three fractions equivalent to  $\frac{1}{2}$ .

Various answers, such as:

$$\frac{2}{4}$$

$$\frac{3}{6}$$

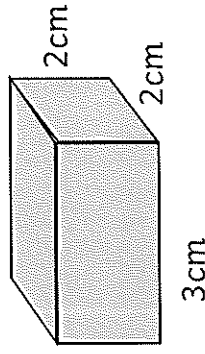
## Section 5

Enoch has 376 stamps in his stamp book and 75 to be stuck in the book. How many stamps has he altogether rounded to the nearest hundred.

500

## Section 6

Calculate the volume of this cuboid.

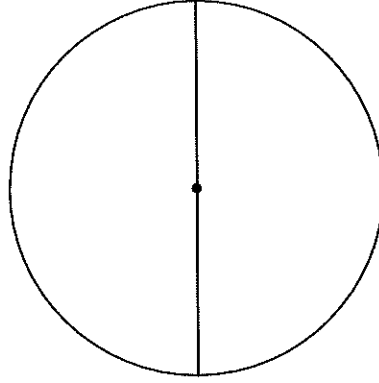


12cm<sup>3</sup>

\*not to scale

## Section 7

Draw the diameter of this circle.



## Section 8

Find the mean of these numbers:

2, 10, 7, 13

8



# Year 6 Spring 1 Maths Activity Mat 5

## Section 1

Use these clues to find the number:

- It is less than 1000.
- All the digits are even.
- The hundreds digit is half the tens digit.
- The ones digit is half way between the tens and hundreds digits.

## Section 2

	1	2	5	8
x			1	4

## Section 3

A collector has 387 coins on display, 298 coins in storage and buys a further 38 coins at an auction.

How many coins does the collector have altogether?

## Section 4

Calculate:

$$\frac{1}{4} \div 2 = \boxed{\phantom{00}}$$

$$\frac{1}{2} \div 5 = \boxed{\phantom{00}}$$

## Section 8

a and b are whole numbers between 6 and 12. Write all the calculations showing the possible values of a and b where:  $a + b = 18$

## Section 5

25% of a class sing in the choir. What fraction of the class sing in the choir?

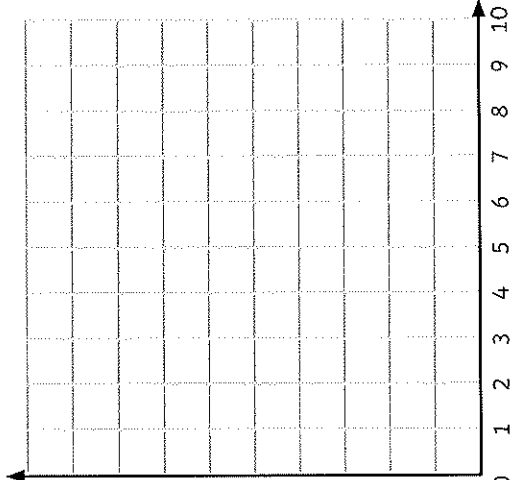
## Section 6

Two litres of juice is shared among eight people. How much juice do they each receive?

## Section 7

Draw a rectangle on this grid using the coordinates:

(4,2) (9,2)  
(4,9) (9,9).



# Year 6 Spring 1 Maths Activity Mat 5 - Answers

## Section 1

Use these clues to find the number:

- It is less than 1000.
- All the digits are even.
- The hundreds digit is half the tens digit.
- The ones digit is half way between the tens and hundreds digits.

486

## Section 2

	<sup>1</sup>	<sup>2</sup>	<sup>3</sup>	
	1	2	5	8
x			1	4
	5	0	3	2
1	2	5	8	0
1	7	6	1	2

1

## Section 3

A collector has 387 coins on display, 298 coins in storage and buys a further 38 coins at an auction.

How many coins does the collector have altogether?

723

## Section 4

Calculate:

$$\frac{1}{4} \div 2 = \boxed{\frac{1}{8}}$$

$$\frac{1}{2} \div 5 = \boxed{\frac{1}{10}}$$

## Section 8

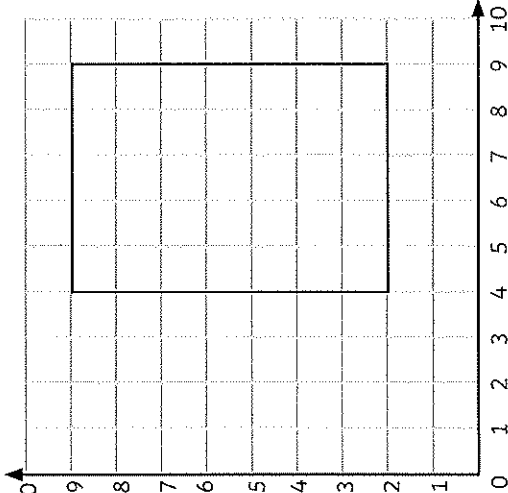
a and b are whole numbers between 6 and 12. Write all the calculations showing the possible values of a and b where:  $a + b = 18$

$$\begin{aligned} a = 7, b = 11; a = 8, b = 10; \\ a = 9, b = 9; a = 10, b = 8; \\ a = 11, b = 7 \end{aligned}$$

## Section 7

Draw a rectangle on this grid using the coordinates:

(4,2) (9,2)  
(4,9) (9,9).



## Section 6

Two litres of juice is shared among eight people. How much juice do they each receive?

250ml or 0.25l

## Section 5

25% of a class sing in the choir. What fraction of the class sing in the choir?

$\frac{1}{4}$

# Year 6 Spring 1 Maths Activity Mat 6

## Section 1

A packet of pens has three red and five blue pens. Ali buys some packets of pens. There are 15 blue pens. How many red pens are there?

## Section 2

$$y = x - 3$$

If  $x = 4$ , what is  $y$ ?

If  $y = 7$ , what is  $x$ ?

## Section 3

Calculate

$$50\% \text{ of } £24 =$$

$$25\% \text{ of } £32 =$$

## Section 4

Calculate:

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

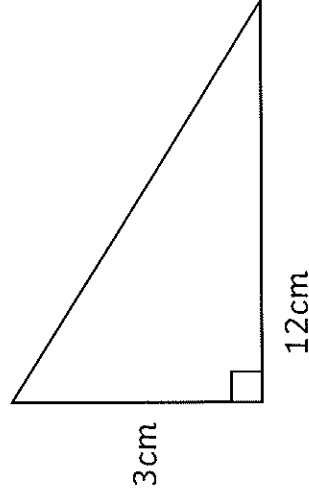
$$\frac{4}{5} - \frac{3}{10} =$$

## Section 5

There are 11 people in a cafe. Coffee is £2 and tea is £1.50. The takings are £20, of which £6 was taken on tea. How many people drink coffee?

## Section 6

Calculate the area of this right-angled triangle.



## Section 7

Write the name of a regular shape with internal angles of  $90^\circ$ .

## Section 8

Majid has some pencils. Nine are freshly sharpened, but 6 need sharpening. Express the total number of pencils algebraically, using  $p$  to represent the total number of pencils.

# Year 6 Spring 1 Maths Activity Mat 6 - Answers

## Section 1

A packet of pens has three red and five blue pens. Ali buys some packets of pens. There are 15 blue pens. How many red pens are there?

9

## Section 2

$$y = x - 3$$

If  $x = 4$ , what is  $y$ ?

1

If  $y = 7$ , what is  $x$ ?

10

## Section 3

Calculate

$$50\% \text{ of } \pounds 24 = \pounds 12$$

$$25\% \text{ of } \pounds 32 = \pounds 8$$

## Section 4

Calculate:

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

$$\frac{4}{5} - \frac{3}{10} = \frac{5}{10} \text{ or } \frac{1}{2}$$

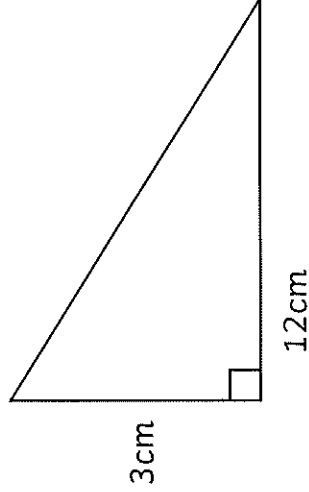
## Section 5

There are 11 people in a cafe. Coffee is £2 and tea is £1.50. The takings are £20, of which £6 was taken on tea. How many people drink coffee?

7

## Section 6

Calculate the area of this right-angled triangle.



18cm<sup>2</sup>

## Section 7

Write the name of a regular shape with internal angles of 90°.

square

## Section 8

Majid has some pencils. Nine are freshly sharpened, but 6 need sharpening. Express the total number of pencils algebraically, using  $p$  to represent the total number of pencils.

$$p = 9 + 6$$