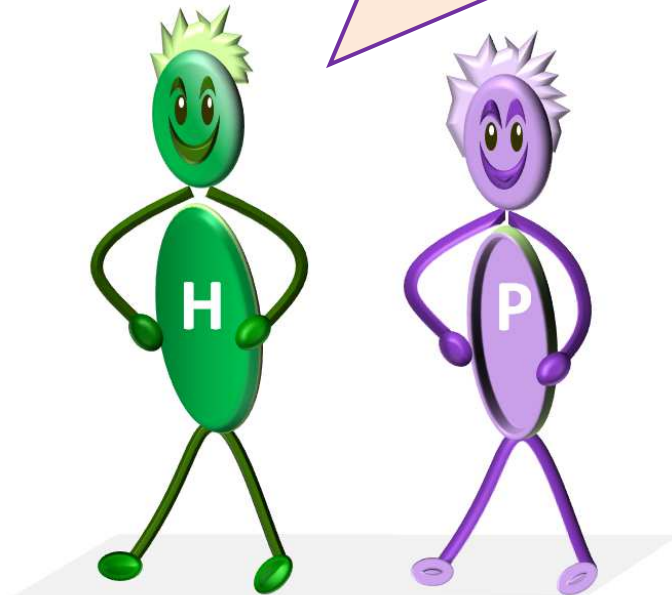


Henry and Poppy  
have fun with numbers

## Year 6 maths part 2

(for 10-11 year olds)

We had fun making these questions  
for you. Enjoy them.











5

In a year group of 96 children the ratio of boys to girls is 5:7.

How many boys and girls are in the year group

Show  
your  
Method

girls

boys



2 marks

Ref: 6R1: Solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts

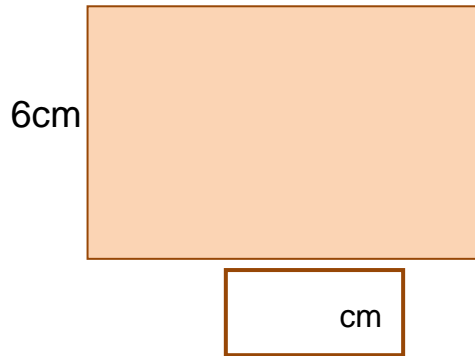
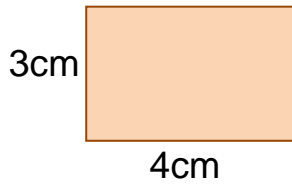








**1** Look at the two similar rectangles



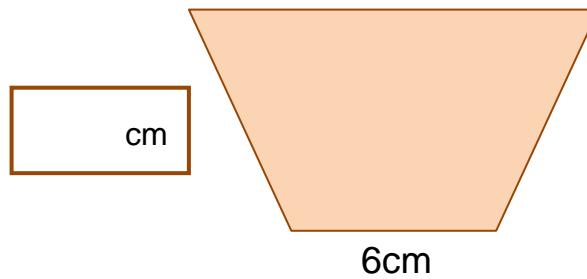
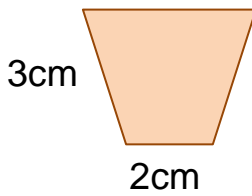
Calculate and write the missing length



1 mark

Ref: 6R3: Solve problem involving similar shapes where the scale factor is known or can be found

**2** Look at the two similar trapeziums



Calculate and write the missing length

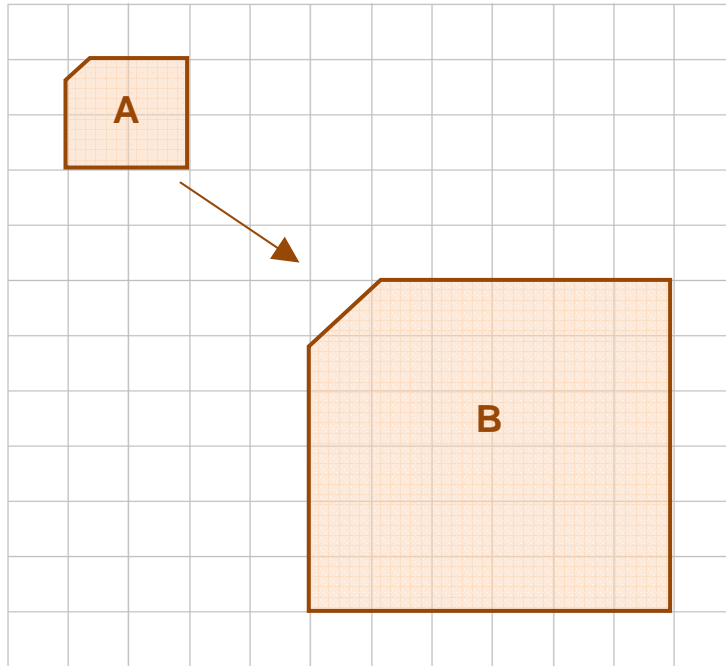


1 mark

Ref: 6R3: Solve problem involving similar shapes where the scale factor is known or can be found

3

Look at the two similar shapes



Calculate and write the scale factor to enlarge A to B

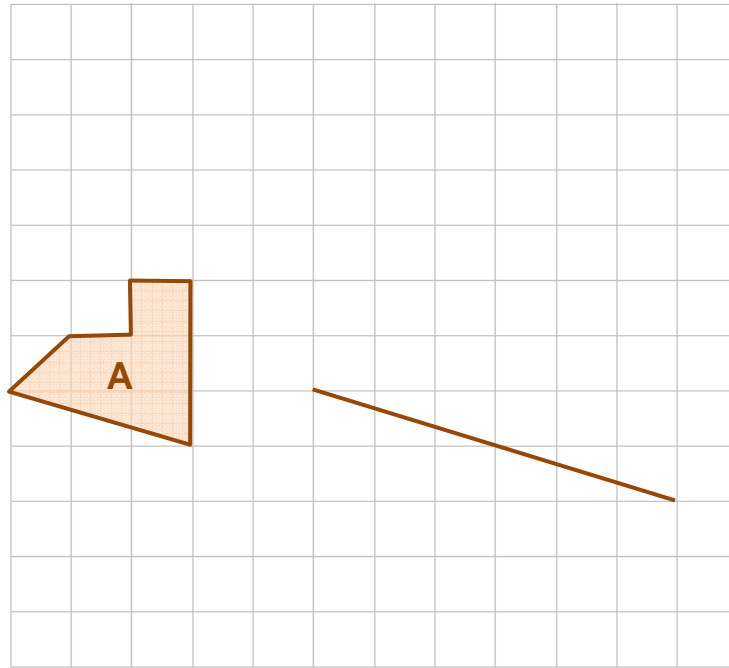
scale factor



1 mark

Ref: 6R3: Solve problem involving similar shapes where the scale factor is known or can be found

4



Enlarge A with a scale factor of 2. One side has been drawn.



1 mark

Ref: 6R3: Solve problem involving similar shapes where the scale factor is known or can be found



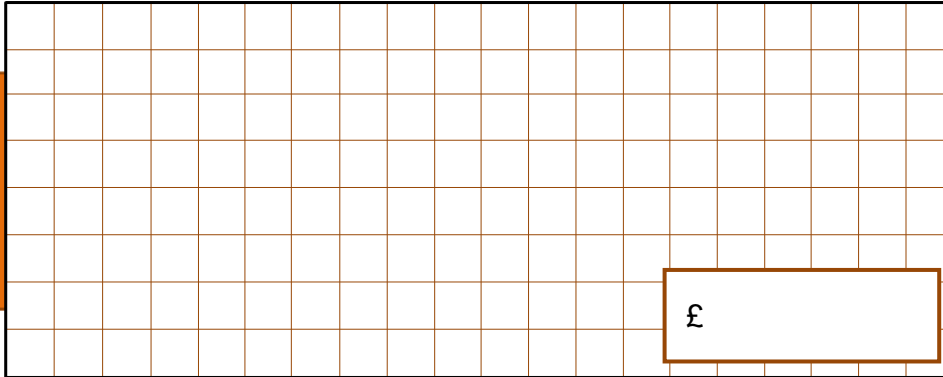


3 56 children went on a school trip paying £21 each

The coach cost  $\frac{3}{7}$  of the money.

How much did the coach cost.

Show  
your  
Method



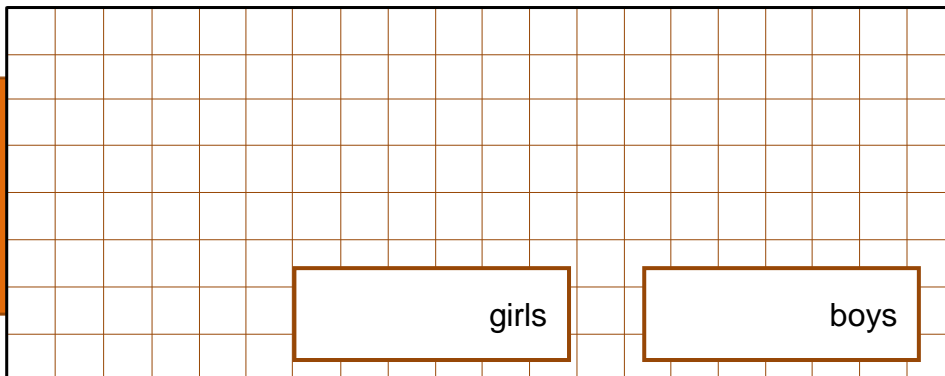
2 marks

Ref: 6R4: Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

4 In a year group of 91 children,  $\frac{3}{7}$  were boys.

How many boys and girls are in the year group

Show  
your  
Method



2 marks

Ref: 6R4: Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

1 Henry has N marbles in his bag

Poppy has 2 more marbles.

How many marbles does Poppy have?

marbles



1 mark

Ref: 6A1: Express missing number problems algebraically

2 Look at these sums

$$A + 5 = 10$$

$$A =$$

$$B - 5 = 10$$

$$B =$$

$$C \div 5 = 10$$

$$C =$$

$$D \times 5 = 10$$

$$D =$$

Write the number for each letter?



2 marks

Ref: 6A1: Express missing number problems algebraically



**3** Henry has  $N$  marbles in his bag

Poppy has twice as many marbles as Henry

How many marbles does Poppy have?

marbles



1 mark

Ref: 6A1: Express missing number problems algebraically

**4** Henry has  $N$  marbles in his bag

Poppy has three less marbles than Henry

How many marbles does Poppy have?

marbles



1 mark

Ref: 6A1: Express missing number problems algebraically

5 Henry is  $N$  year old.

His sister Poppy is 3 years younger than Henry.

Altogether their two ages add up to 15.

Write an equation for their two ages



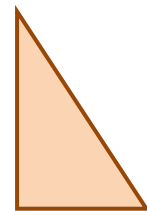
1 mark

Ref: 6A1: Express missing number problems algebraically

6 Here is a triangle.

The area of the triangle is  $2N \text{ cm}^2$

$2N \text{ cm}$



cm

Write the width of the base

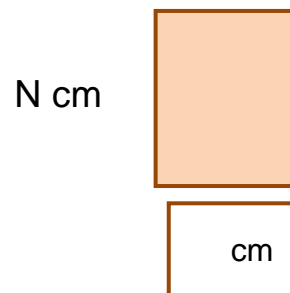


1 mark

Ref: 6A1: Express missing number problems algebraically

7 Here is a rectangle.

The area of the rectangle is  $2N \text{ cm}^2$



Write the width



1 mark

Ref: 6A1: Express missing number problems algebraically

1  $p = 31$

What is  $2p + 7$ ?



1 mark

$$2s + 5 = 87$$

Work out the value of  $s$ ?

$s =$




1 mark

Ref: 6A2 Use simple formulae

2 Some boys and girls went swimming.

14 more girls than boys went swimming

Key  =  children

Boys	
Girls	

Complete the key



1 mark

How many children went swimming altogether

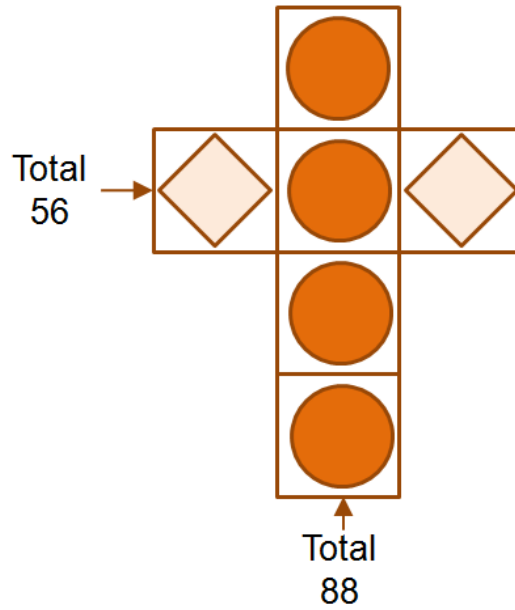
Children



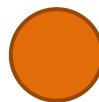
1 mark

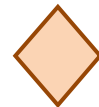
Ref: 6A2: Use simple formulae

3 Each shape stands for a number



Work out the value of each shape

 =

 =

1 mark

1 mark

Ref: 6A2 Use simple formulae



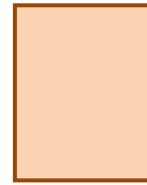




7 Here is a rectangle.

Tick all the correct formula

h cm



w cm

Area =  $h \times w$

Area =  $h + w$

Area =  $2(h + w)$

Area =  $2 \times h \times w$

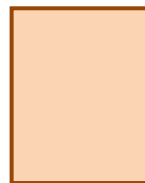


2 marks

Ref: 6A2: Use simple formulae

8 Here is a rectangle.

h cm



w cm

Tick **all** the correct formula

Perimeter =  $h \times w$

Perimeter =  $2h + w$

Perimeter =  $2(h + w)$

Perimeter =  $2 \times h \times w$

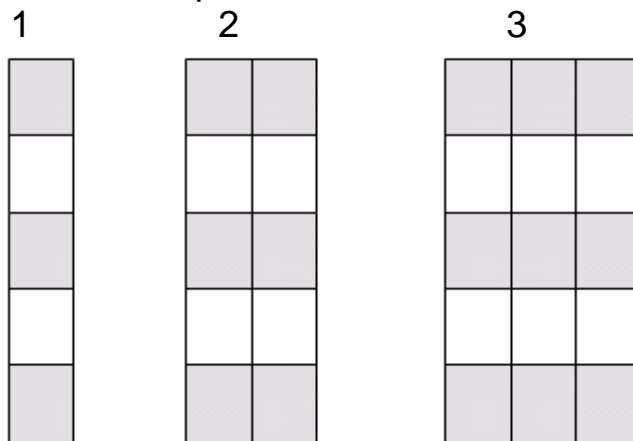


2 marks

Ref: 6A2: Use simple formulae



1 Here is a sequence of shapes made with grey and white tiles.  
shape number



How many *grey tiles* will there be in shape number 4

grey tiles

Which equation gives the number of white tiles

white tiles = grey tiles - 3

white tiles = 3 × the shape number

white tiles = 2 × the shape number

white tiles = grey tiles - 2



2 marks

Ref: 6A3: Generate and describe linear number sequences

**2** Here is a sequence of numbers

1	5	9		17
21	25		33	36
	44	48	52	

Write in the missing numbers



2 marks

Ref: 6A3: Generate and describe linear number sequences

**3** Here is a sequence of numbers

25	27	29		31
15	17		21	23
	7	9	11	

Write in the missing numbers



2 marks

Ref: 6A3: Generate and describe linear number sequences

**4** Here is a sequence of numbers

2   3   5   9

Write in the missing numbers



2 marks

Ref: 6A3: Generate and describe linear number sequences

**5** Look at this sequence of numbers

10   16   22   28   ...

Describe how this sequence of numbers changes

---

---



1 mark

Ref: 6A3: Generate and describe linear number sequences

6

Look at this sequence of decimal numbers

10 9.6 9.2 8.8 ....

Describe how this sequence of numbers changes

---

---



1 mark

Ref: 6A3: Generate and describe linear number sequences

7

Here is a sequence of numbers

21 31 41 51

Write in the missing numbers



2 marks

Ref: 6A3: Generate and describe linear number sequences













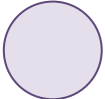
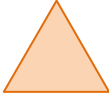


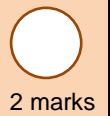


1 Each shape stands for a number

$$\text{circle} + \text{circle} + \text{triangle} = 10$$

Give six values that the shapes could be equal to  
The first one has been done for you

	=	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	=	<input type="text" value="10"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>












2 marks

Ref: 6A5: Enumerate possibilities of combinations of two variables

2 When you add these shapes across or down you get the answers shown

Work out the number for each shape

			= 15
			= 19
			= 11
15	13	17	

 =

 =

 =






2 marks

Ref: 6A5: Enumerate possibilities of combinations of two variables

**3** A sweet costs Poppy 10p



List all the different ways she can pay for it using 1p, 2p, and 5p coins. Write how many of each coin are needed. The first one has been done for you

			
1.	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="2"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.	<input type="text"/>	<input type="text"/>	<input type="text"/>
7.	<input type="text"/>	<input type="text"/>	<input type="text"/>
8.	<input type="text"/>	<input type="text"/>	<input type="text"/>

  
2 marks

Ref: 6A5: Enumerate possibilities of combinations of two variables







- 3 Henry weighed 25.39kg  
Poppy weighed 22500 grams

How much more did Henry weigh

Show  
your  
Method

kg

2 marks

Ref: 6M5: Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to three decimal places

- 4 Poppy is 1.16m tall.  
Henry is 9.5cm taller

How tall is Henry

Show  
your  
Method

m

2 marks

Ref: 6M5: Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to three decimal places





1

$$1 \text{ mile} = 1.6\text{km}$$

What is 15 miles in km

Show  
your  
Method

km



2 marks

Ref: 6M6: Convert between miles and kilometres

2

$$0.6 \text{ mile} = 1\text{km}$$

What is 50 km in miles

Show  
your  
Method

miles



2 marks

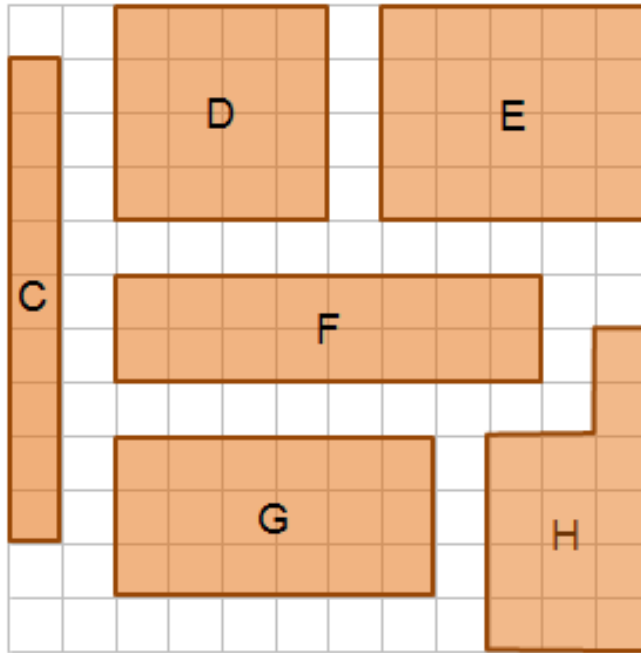
Ref: 6M6: Convert between miles and kilometres







1 Look at these shapes



Which shapes have the same area and the same perimeter

Which shapes have the same perimeter, but different areas

Which shapes have the same area, but different perimeters

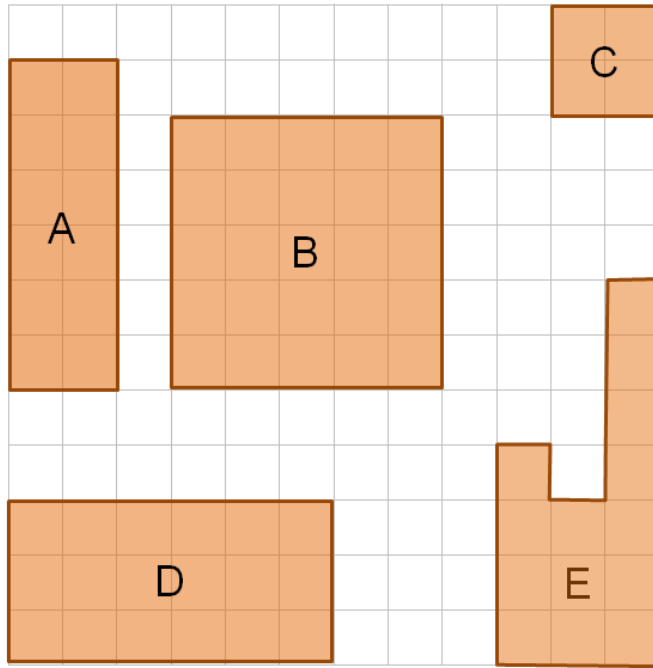


3 marks

Ref: 6M7a: Recognise that shapes with the same areas can have different perimeters and vice versa

2

Look at these shapes



Sort the shapes letters into this diagram

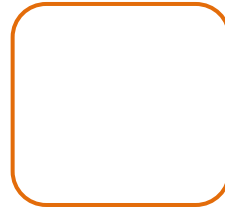
bigger perimeter  
than area



same perimeter  
as area



smaller perimeter  
than area



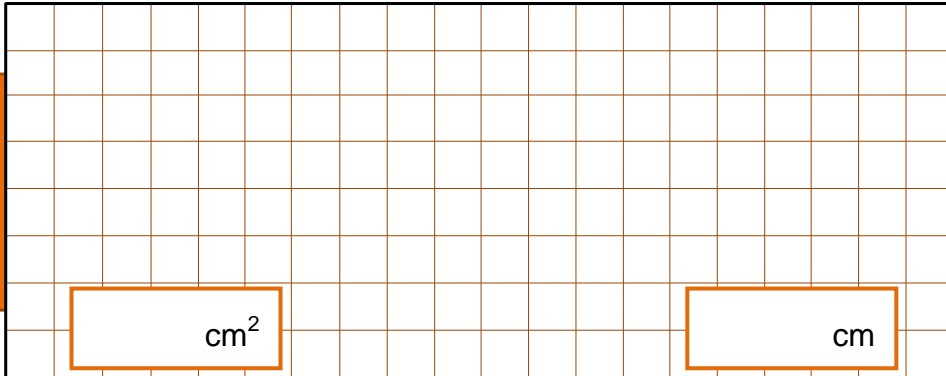
3 marks

Ref: 6M7a: Recognise that shapes with the same areas can have different perimeters and vice versa

3 A square has the same value for its area and perimeter.

What is the area and perimeter of the square

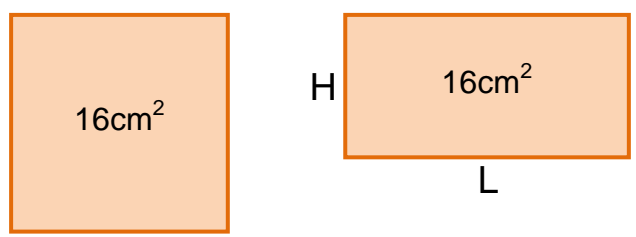
Show  
your  
Method



2 marks

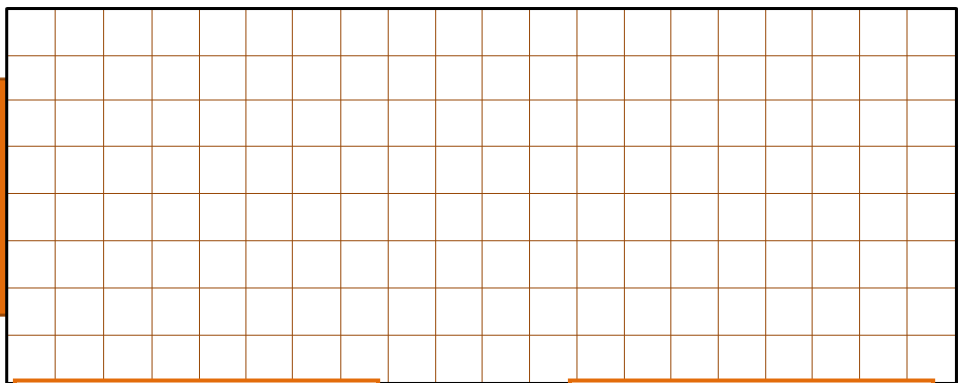
Ref: 6M7a: Recognise that shapes with the same areas can have different perimeters and vice versa

**4** A square has an area of  $16\text{cm}^2$   
 A rectangle has the same area with H less than the square.



What is the perimeter of the rectangle. Give 2 possible answers

Show your Method



H=      L=      cm

H=      L=      cm

perimeter =      cm

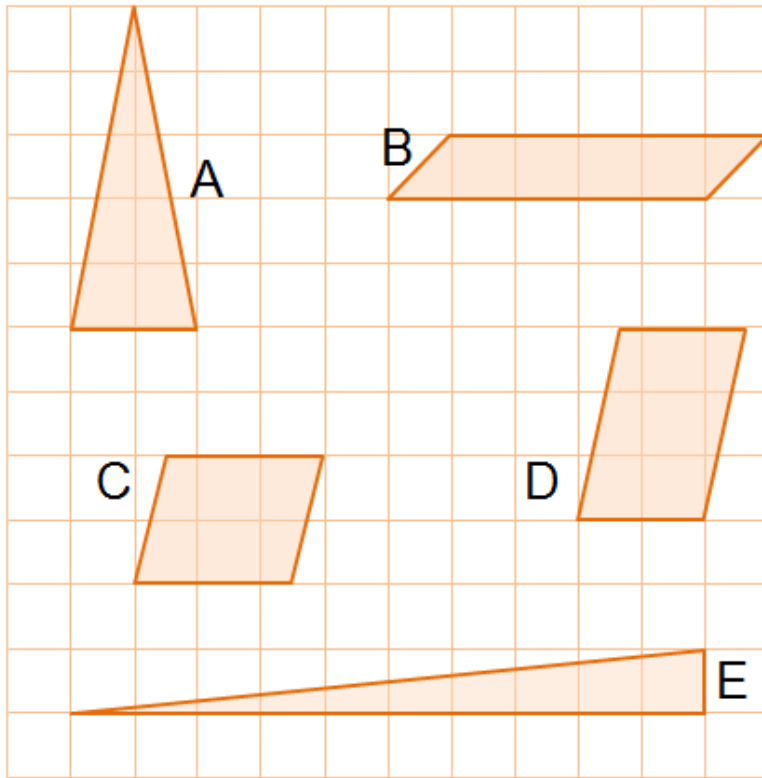
perimeter=      cm

2 marks

Ref: 6M7a: Recognise that shapes with the same areas can have different perimeters and vice versa

1

Look at the triangles and parallelograms on a square grid.



One of the shapes has a different area

Which shape has a different area

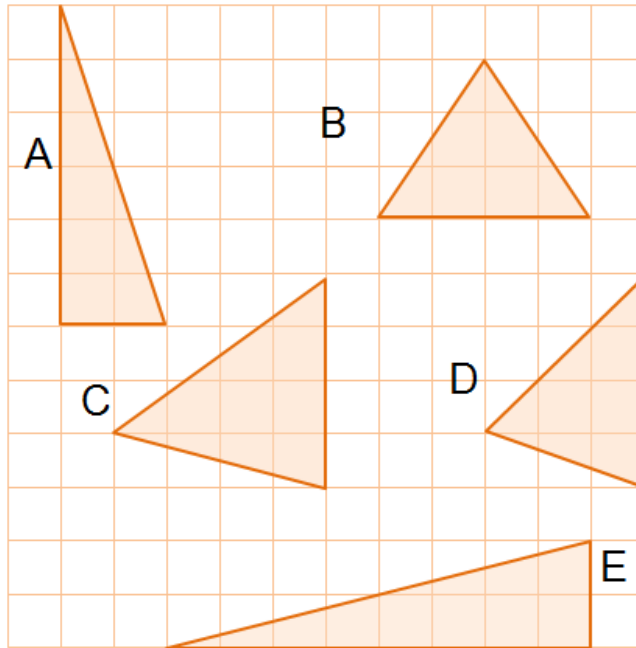


1 mark

Ref: 6M7b Calculate the area of parallelograms and triangles

2

Look at the triangles on a square grid.



Which shapes have an area of  $6\text{cm}^2$

Which shapes have an area of  $8\text{cm}^2$

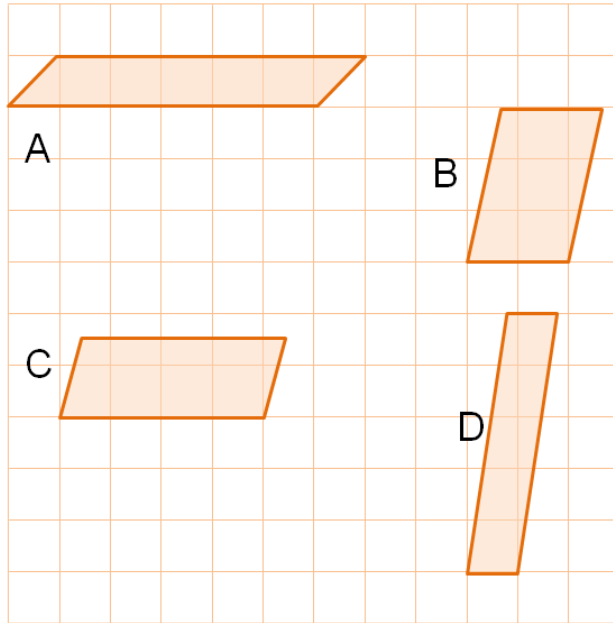


2 marks

Ref: 6M7b: Calculate the area of parallelograms and triangles

3

Look at the parallelograms on a square grid.



Which shape has a different area?

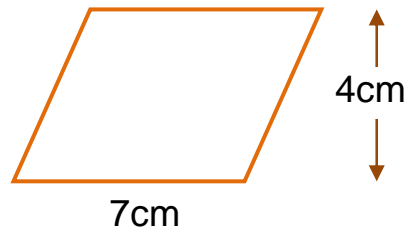
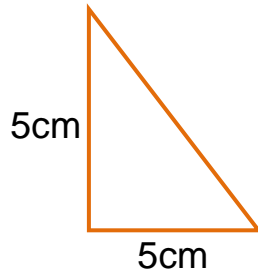


1 mark

Ref: 6M7b: Calculate the area of parallelograms and triangles

1

Look at these shapes



Calculate the area of the triangle using  $\text{Area} = \frac{1}{2} \text{ base} \times \text{height}$

cm<sup>2</sup>



1 mark

Calculate the area of the parallelogram using  $\text{Area} = \text{base} \times \text{height}$

cm<sup>2</sup>



1 mark

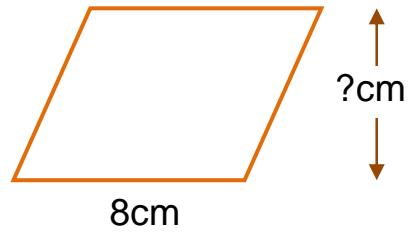
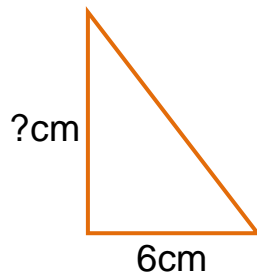
Ref: 6M7c: Recognise when it is possible to use the formulae for the area of shapes



2

Look at these shapes

The area of the triangle is  $15\text{cm}^2$  and the parallelogram is  $20\text{cm}^2$



Calculate the height of the triangle using  $\text{Area} = \frac{1}{2} \text{ base} \times \text{height}$



1 mark

Calculate the height of the parallelogram using  $\text{Area} = \text{base} \times \text{height}$



1 mark

Ref: 6M7c: Recognise when it is possible to use the formulae for the area of shapes

3

Write the shapes for these formulae

Area of

= length  $\times$  width

Area of

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

Area of

= base  $\times$  height

Area of

= length<sup>2</sup>

2 marks

Ref: 6M7c: Recognise when it is possible to use the formulae for the area of shapes

4

Write the missing formulae for these formulae

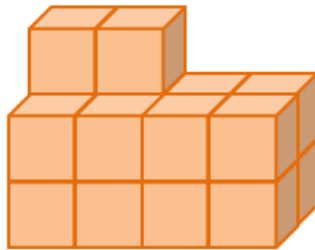
Shape	perimeter is	area is
<b>Square</b>	4 $\times$ side	<input type="text"/>
<b>Rectangle</b>	2 $\times$ (Length + Width)	<input type="text"/>
<b>Triangle</b>	side + side + side	$\frac{1}{2} \times$ <input type="text"/>
<b>Circle</b>	$\pi \times$ diameter	<input type="text"/>



2 marks

Ref: 6M7c: Recognise when it is possible to use the formulae for the area of shapes

1 This shape is made up of one centimetre cubes.



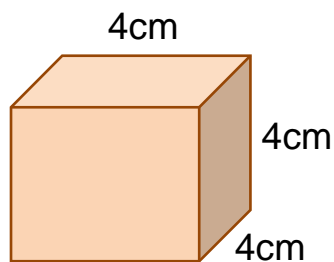
What is the volume of the shape



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

2 Look at this cube.



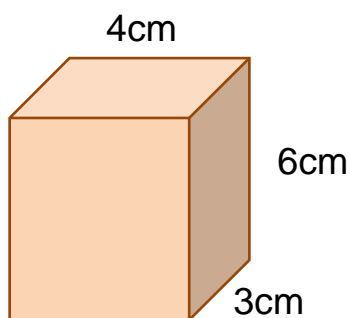
What is the volume of the cube



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

3 Look at this cuboid.



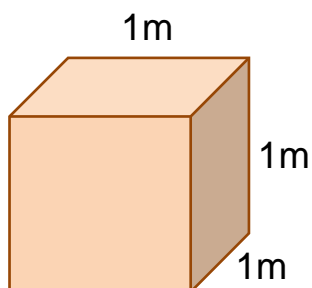
What is the volume of the cuboid



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

4 Look at this cube measured in metres.



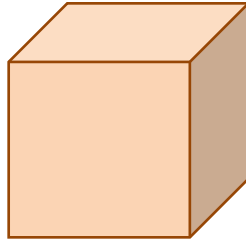
What is the volume of the cube in **cm<sup>3</sup>**



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

5 The volume of this cube is  $8\text{m}^3$ .



What is are the lengths of each side in **cm**

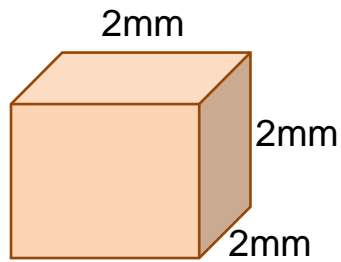
cm



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

6 Look at this cube measured in millimetres.



What is the volume of the cube in  **$\text{cm}^3$**

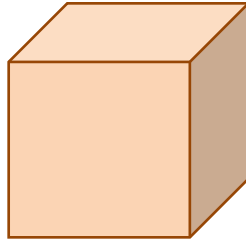
$\text{cm}^3$



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

7 The volume of this cube is  $1\text{cm}^3$ .



What is are the lengths of each side in **mm**

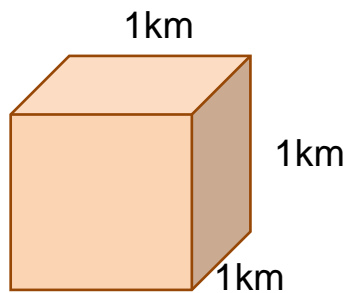
mm



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

8 Look at this cube measured in kilometres



What is the volume of the cube in  $\text{m}^3$

$\text{m}^3$



1 mark

Ref: 6M8a: Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [eg:  $\text{mm}^3$  and  $\text{km}^3$ ]

1

Write the shapes for these formulae

Volume of  = length × width × height

Volume of  = length<sup>3</sup>

2 marks

Ref: 6M8b: Recognise when it is possible to use the formulae for the volume of shapes

2

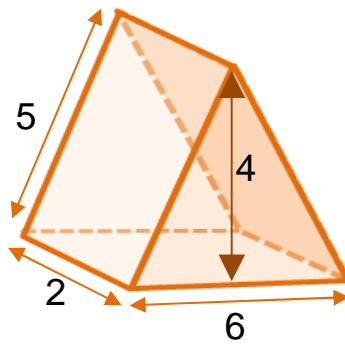
Write the missing formulae for these shapes

Shape	Volume is
<b>Cube</b>	<input type="text"/>
<b>Cuboid</b>	<input type="text"/>

2 marks

Ref: 6M8b: Recognise when it is possible to use the formulae for the volume of shapes

3 Look at this triangular prism.



Which is the correct formulae (✓) for the volume.

$5 \times 2 \times 6 \div 2$

$5 \times 4 \times 6$

$4 \times 2 \times 6$

$2 \times 4 \times 6 \div 2$

$5 \times 4 \times 6 \times 2$

$5 \times 2 \times 6 \times 4 \div 2$



1 mark

Ref: 6M8b: Recognise when it is possible to use the formulae for the volume of shapes







1 Look at the geometric shapes



Write the letter of each shape in the correct place below

	All sides equal	no sides equal	2 sides equal
Has 3 sides			
More than 3 sides			



2 marks

Ref: 6G2a: Compare and classify geometric shapes based on their properties and sizes

**2** Look at the geometric shapes



Write the letter of each shape in the correct place below

	Has right angles	No right angles
Has 3 sides		
More than 3 sides		



2 marks

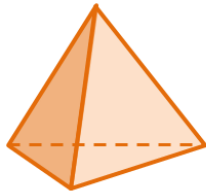
Ref: 6G2a: Compare and classify geometric shapes based on their properties and sizes

1

Describe these 3-D shapes by completing the table



A



B



C



D



E

	Name	Number faces
A		
B		
C		
D		
E		

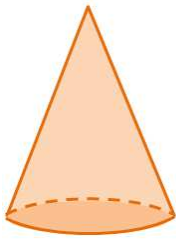


2 marks

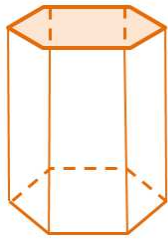
Ref: 6G2b: Describe simple 3-D shapes

2

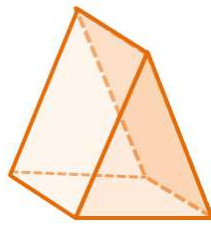
Describe these 3-D shapes by completing the table



A



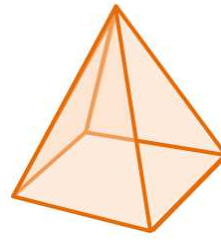
B



C



D



E

	Name	Number faces
A		
B		
C		
D		
E		



2 marks

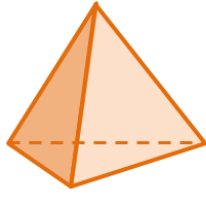
Ref: 6G2b: Describe simple 3-D shapes

3

Describe these 3-D shapes by completing the table



A



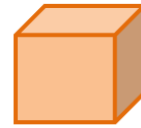
B



C



D



E

	Number vertices	Number edges
A		
B		
C		
D		
E		

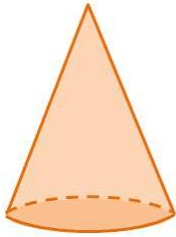


2 marks

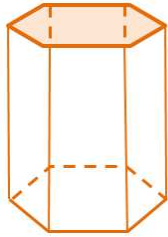
Ref: 6G2b: Describe simple 3-D shapes

4

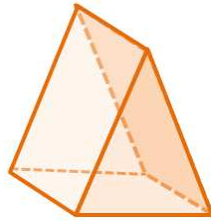
Describe these 3-D shapes by completing the table



A



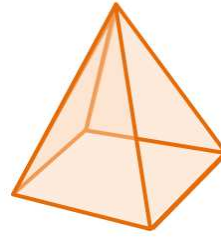
B



C



D



E

	Number vertices	Number edges
A		
B		
C		
D		
E		

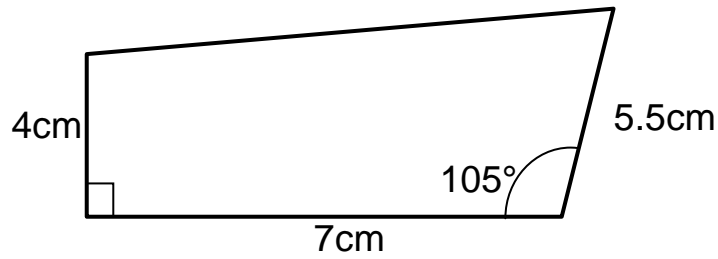


2 marks

Ref: 6G2b: Describe simple 3-D shapes



1 Here is quadrilateral, not drawn to scale.



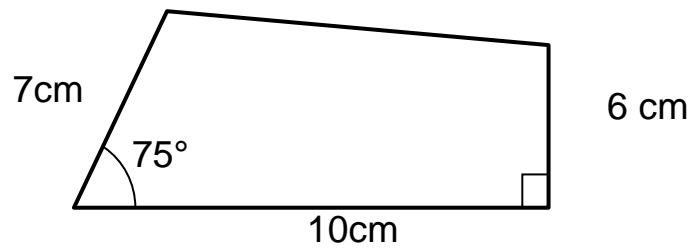
Draw the quadrilateral accurately below.  
Use a protractor and ruler.



1 mark

Ref: 6G3a: Draw 2-D shapes using given dimensions and angles

2 Here is quadrilateral, not drawn to scale.



Draw the quadrilateral accurately below.  
Use a protractor and ruler.

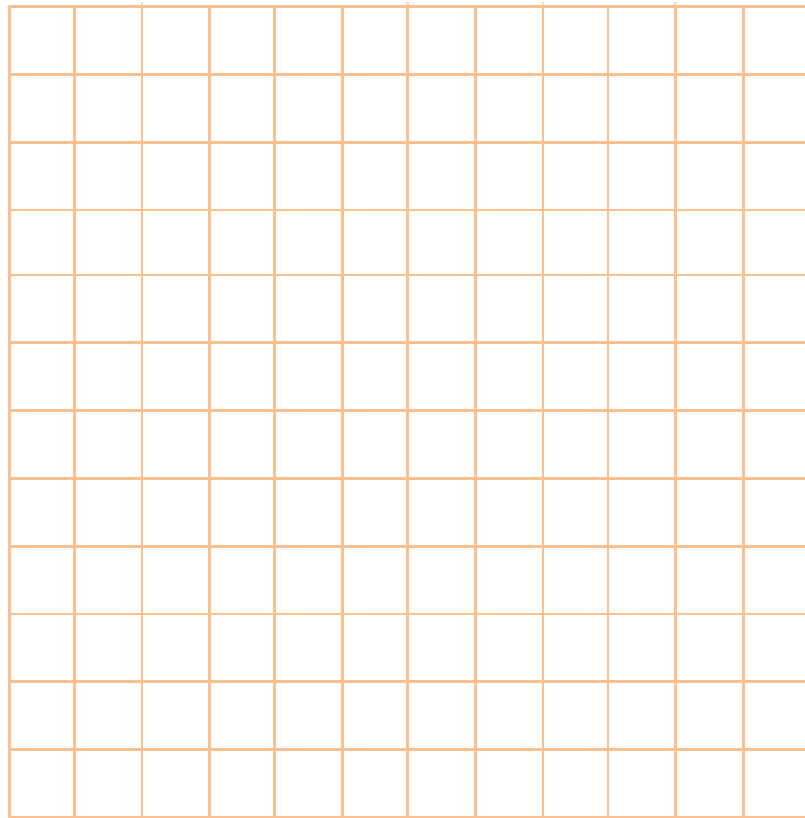
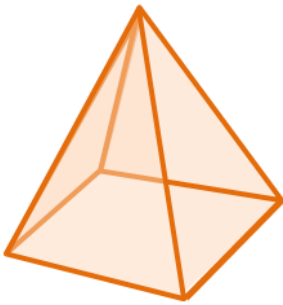


1 mark

Ref: 6G3a: Draw 2-D shapes using given dimensions and angles

1

Draw the net for this shape

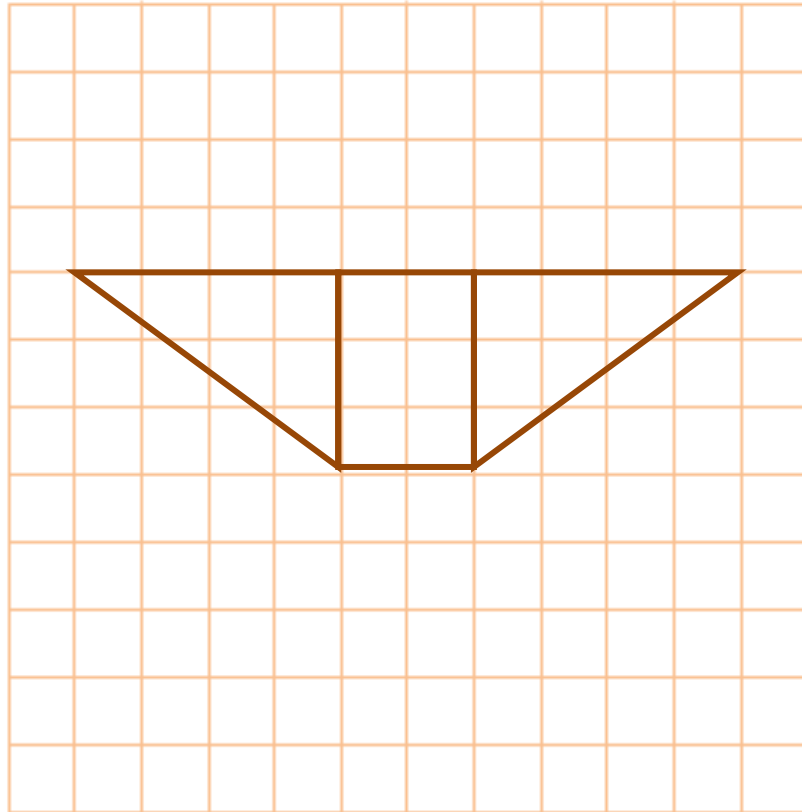
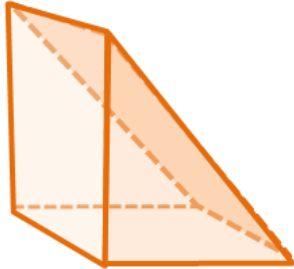


1 mark

Ref: 6G3b: Recognise and build simple 3-D shapes, including making nets

2

Draw the net for this shape accurately using the grid.  
Some has been done for you.

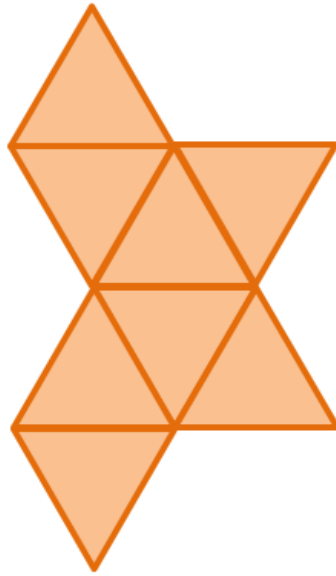


2 marks

Ref: 6G3b: Recognise and build simple 3-D shapes, including making nets

3

What shape does this net make

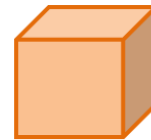
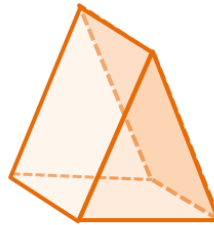
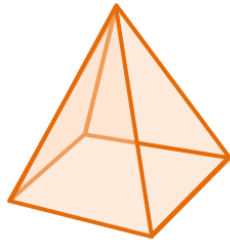
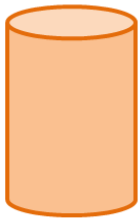
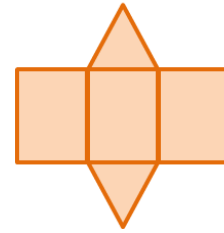
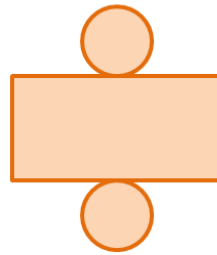
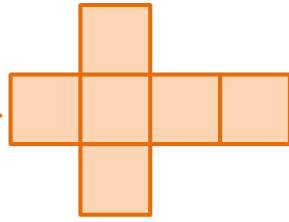


1 mark

Ref: 6G3b: Recognise and build simple 3-D shapes, including making nets

4

Draw a line to match these nets to their correct shape

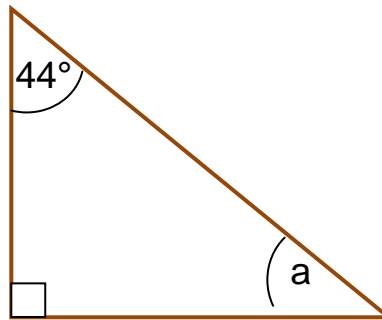


2 marks

Ref: 6G3b: Recognise and build simple 3-D shapes, including making nets

1

Calculate the size of angles a in the triangle



a =

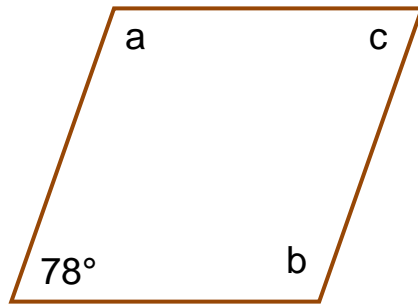


1 mark

Ref: 6G4a Find unknown angles in any triangles, quadrilaterals and regular polygons

2

Calculate the size of angles a, b and c in the parallelogram



a =

b =

c =

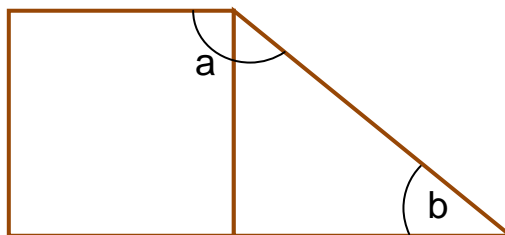


2 marks

Ref: 6G4a Find unknown angles in any triangles, quadrilaterals and regular polygons



- 3 Look at the square and the triangle.  
The triangle is an equilateral triangle



Calculate the size of angles  $a$  and  $b$  in this diagram

$a =$

$b =$



1 mark

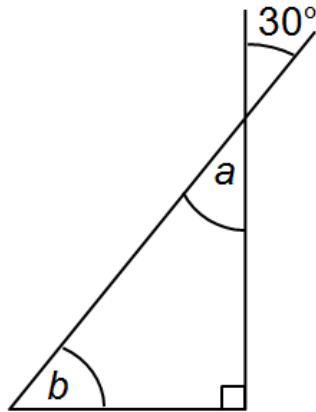


1 mark

Ref: 6G4a Find unknown angles in any triangles, quadrilaterals and regular polygons

1

Calculate the size of angles  $a$  and  $b$  in this diagram



$a =$

$b =$



1 mark



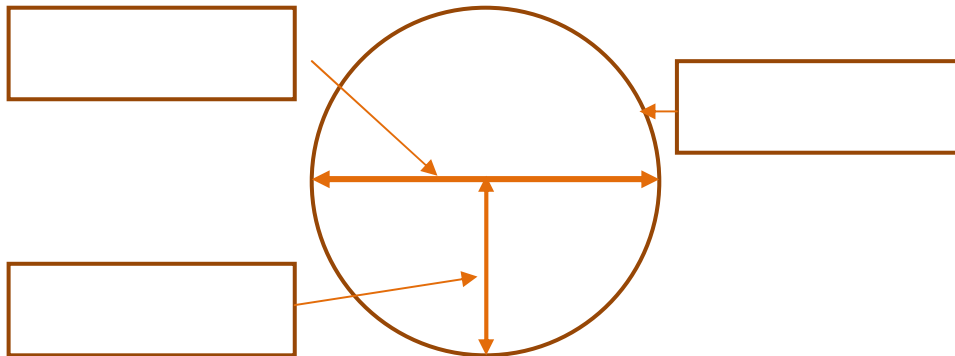
1 mark

Ref: 6G4b Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles



1

Label the parts of the circle



2 marks

Ref: 6G5 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

2

A circle has a diameter of 9 cm

What is the radius of the circle

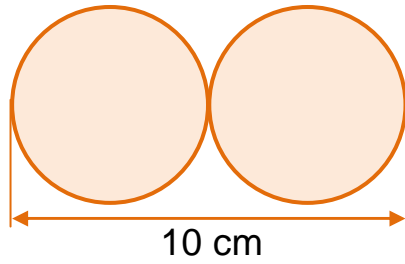
cm



1 mark

Ref: 6G5 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

3 Here are two identical circles.



What is the radius of each circle

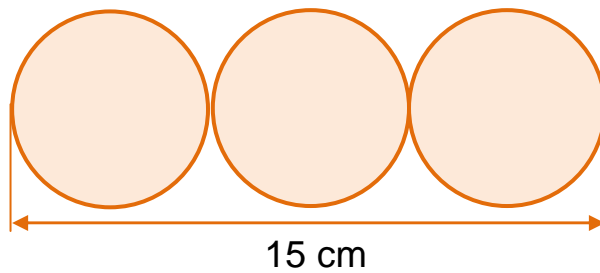
cm



1 mark

Ref: 6G5 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

4 Here are three identical circles.



What is the diameter of each circle

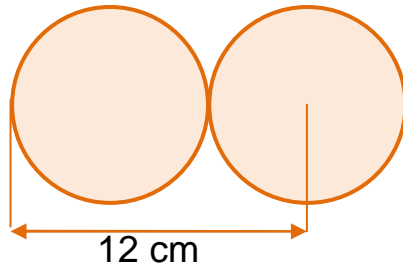
cm



1 mark

Ref: 6G5 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

5 Here are two identical circles.



What is the radius of each circle

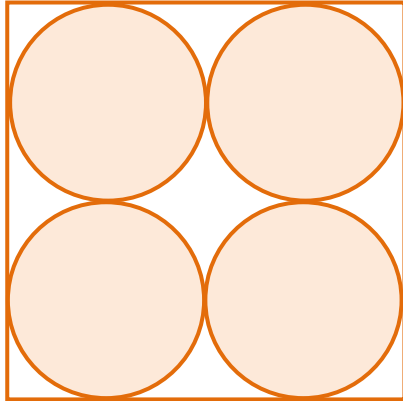
cm



1 mark

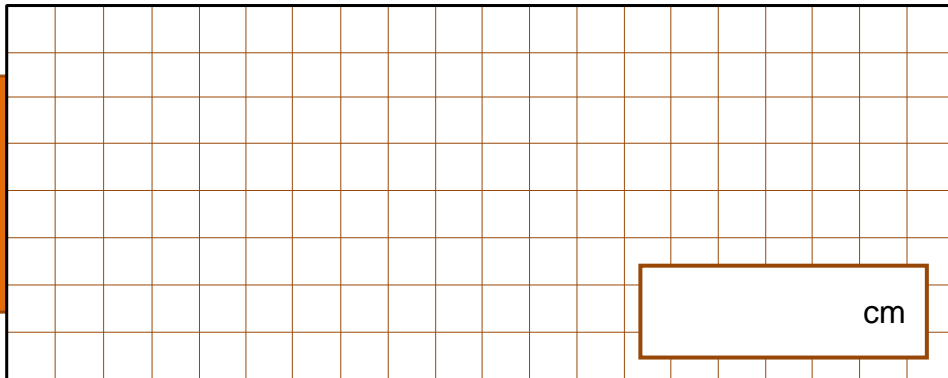
Ref: 6G5 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

6 Here is a square of area  $16 \text{ cm}^2$  with circles inside.



What is the radius of each circle

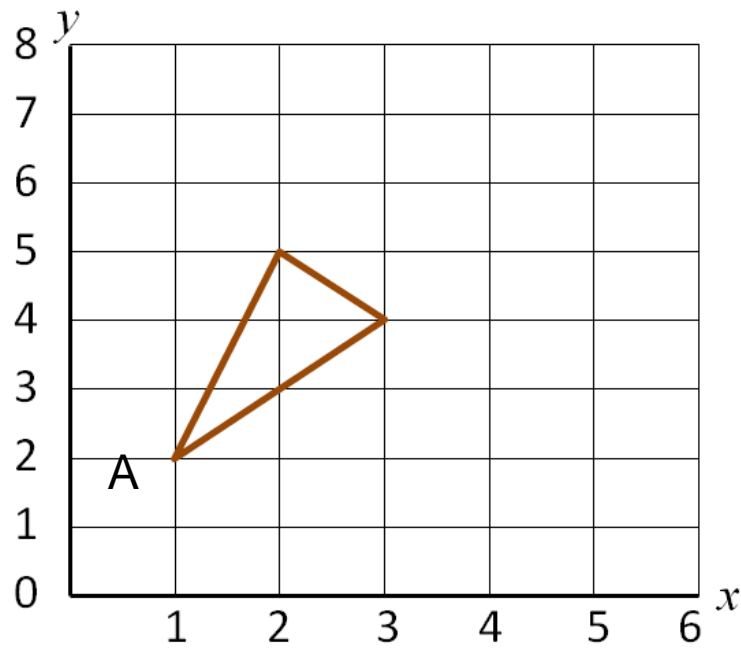
Show  
your  
Method



2 marks

Ref: 6G5 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

1 Translate this shape 3 units up and 2 units right



What are the co-ordinates of A *after* the translation?

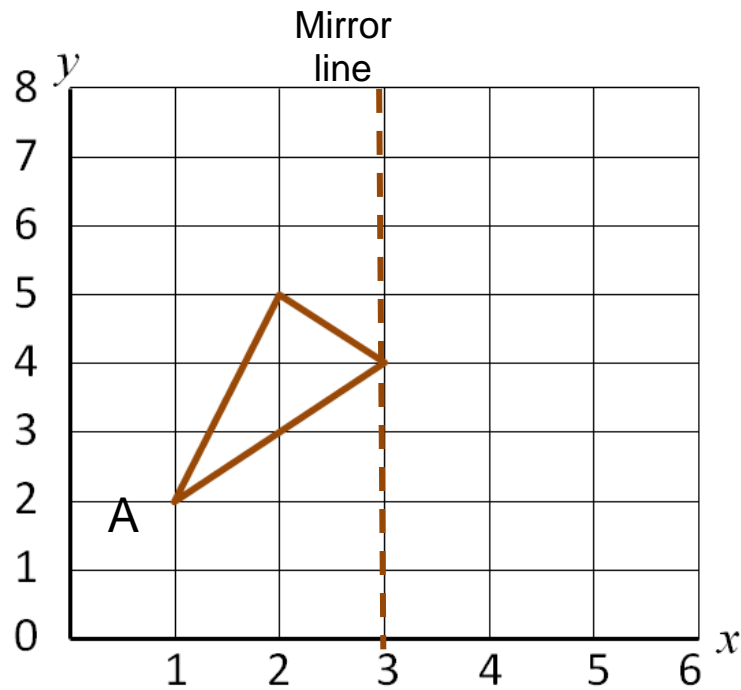


1 mark

Ref: 6P2 Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes



2 Draw a reflection of this shape in the mirror line.



What are the co-ordinates of *A* after the reflection?

(     ,     )

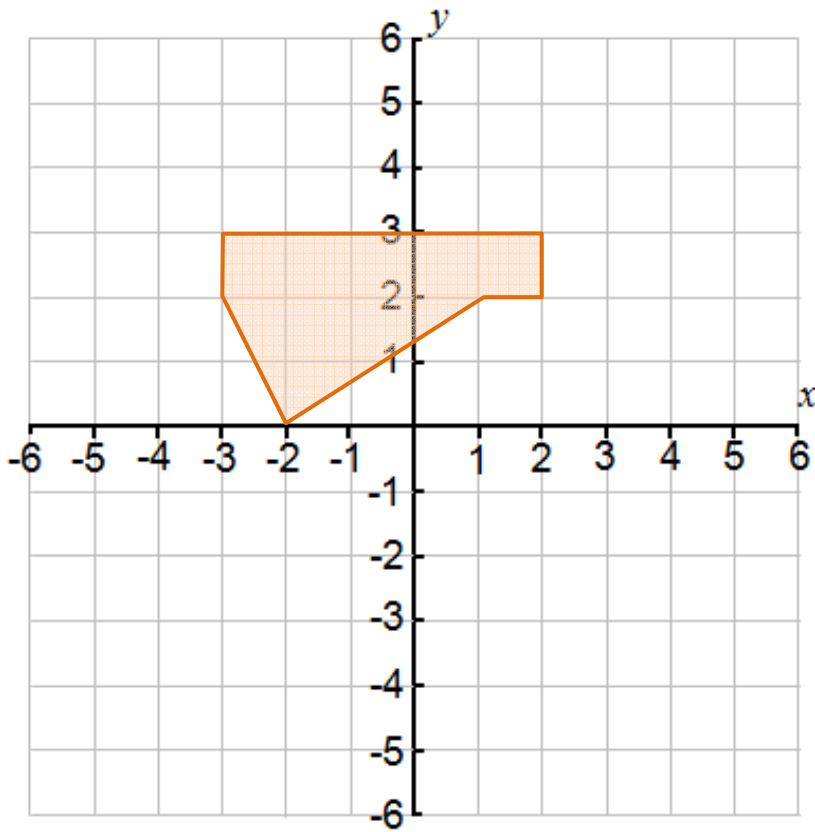


2 mark

Ref: 6P2 Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes

3

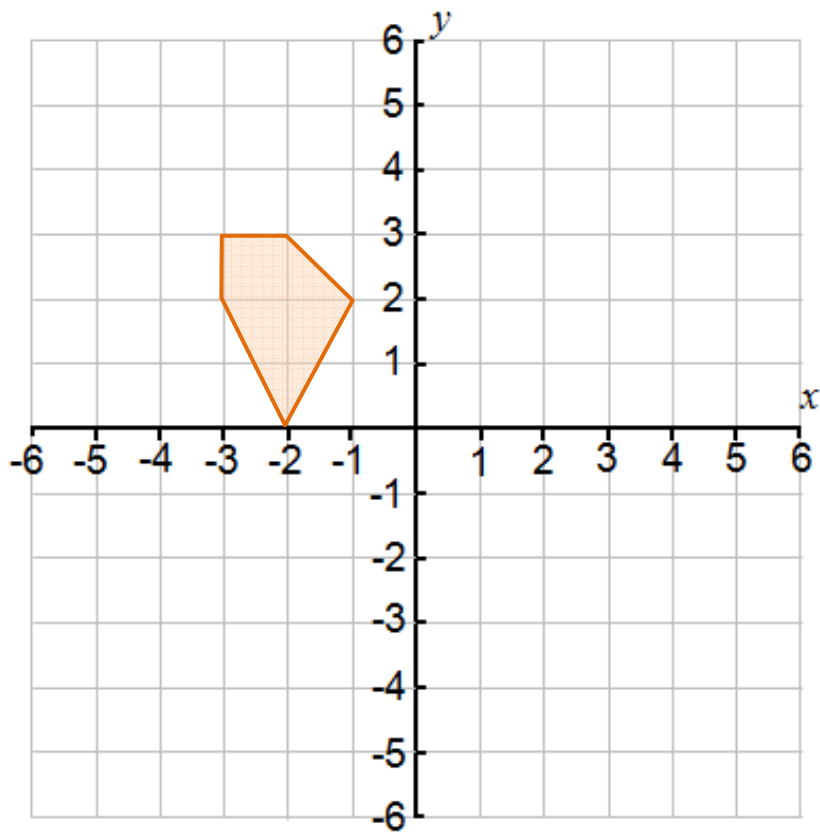
Draw a reflection of this shape in the x-axis.



2 mark

Ref: 6P2 Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes

4 Draw a reflection of this shape in the y-axis.

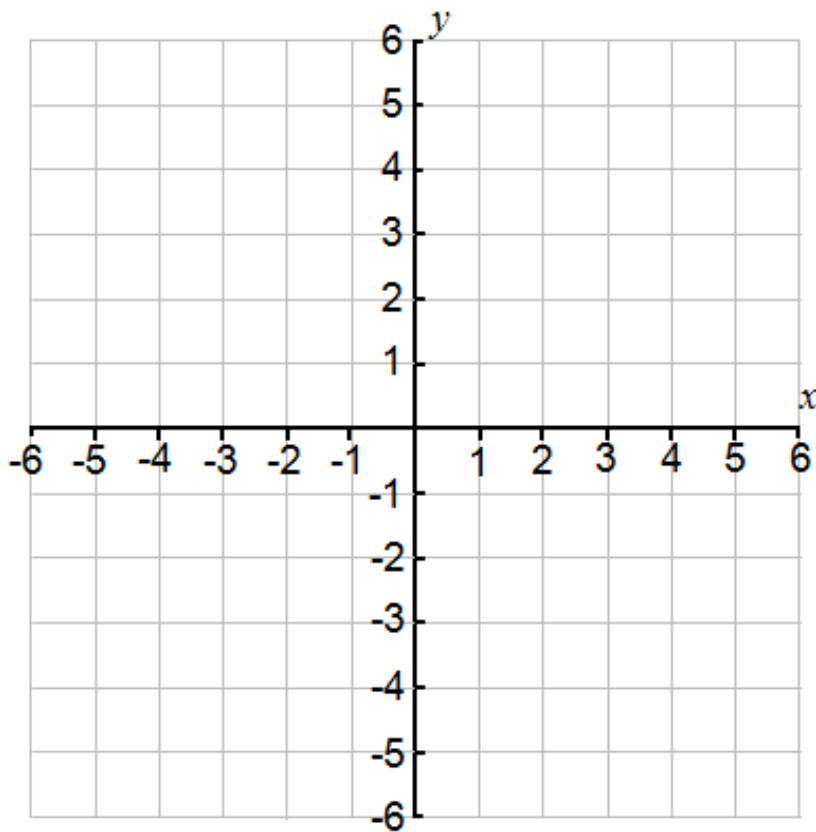


2 mark

Ref: 6P2 Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes

1

Mark the position of the co-ordinates below on the graph



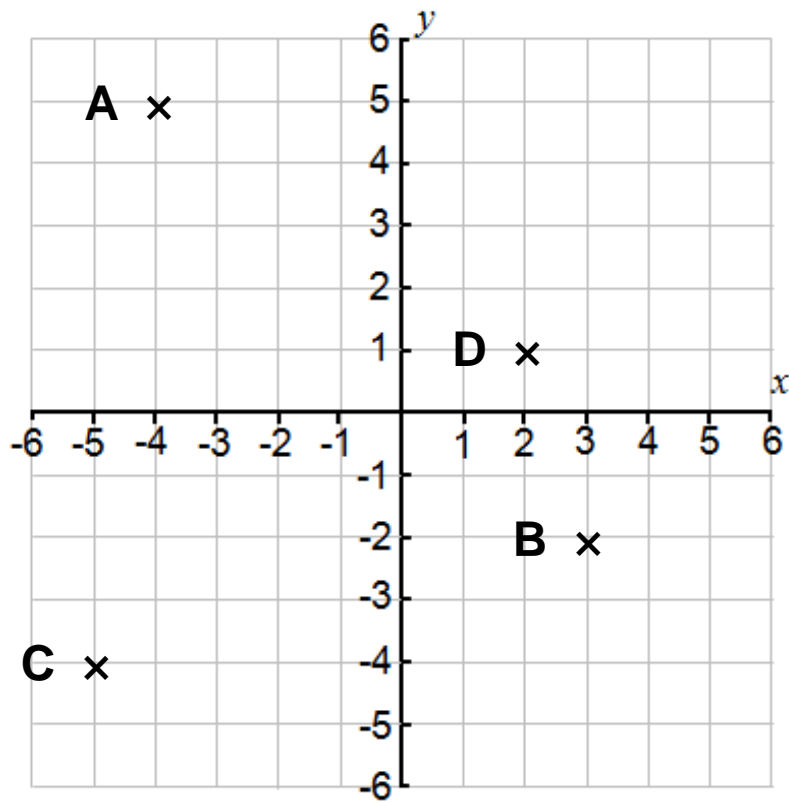
Label	Co-ordinate
A	( 5 , 6)
B	( 2 , -3)
C	( -4 , 4)
D	( -2 , -4)

2 mark

Ref: 6P3 Describe positions on the full co-ordinate grid (all four quadrants)

2

Write the co-ordinates of the points below on the graph



A

B

C

D

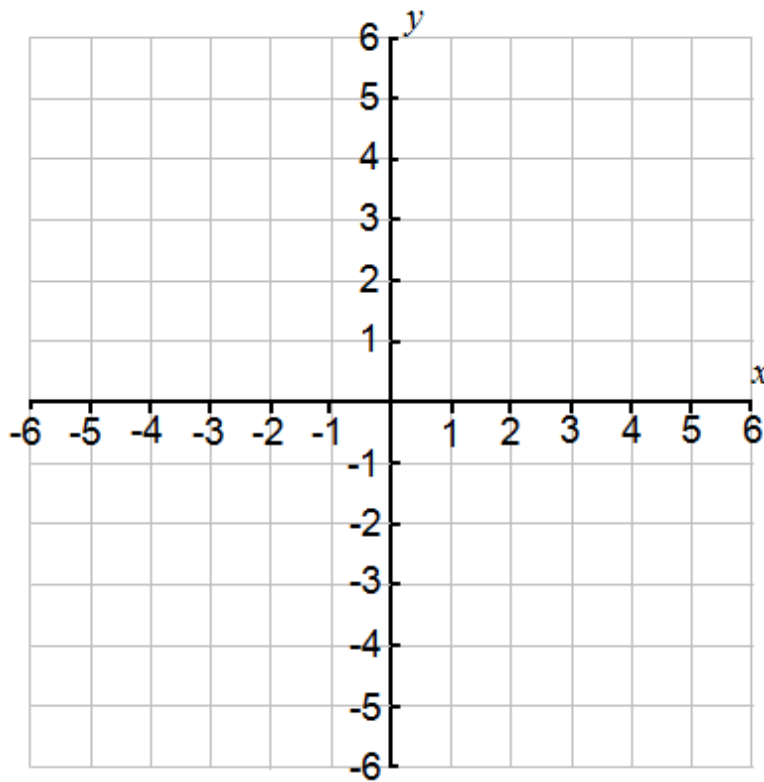


2 mark

Ref: 6P3 Describe positions on the full co-ordinate grid (all four quadrants)

3

Write the co-ordinates of the corners of the square that has sides 6 wide and lines of symmetry on the x and y axis



Top left

Top right

Bottom left

Bottom right

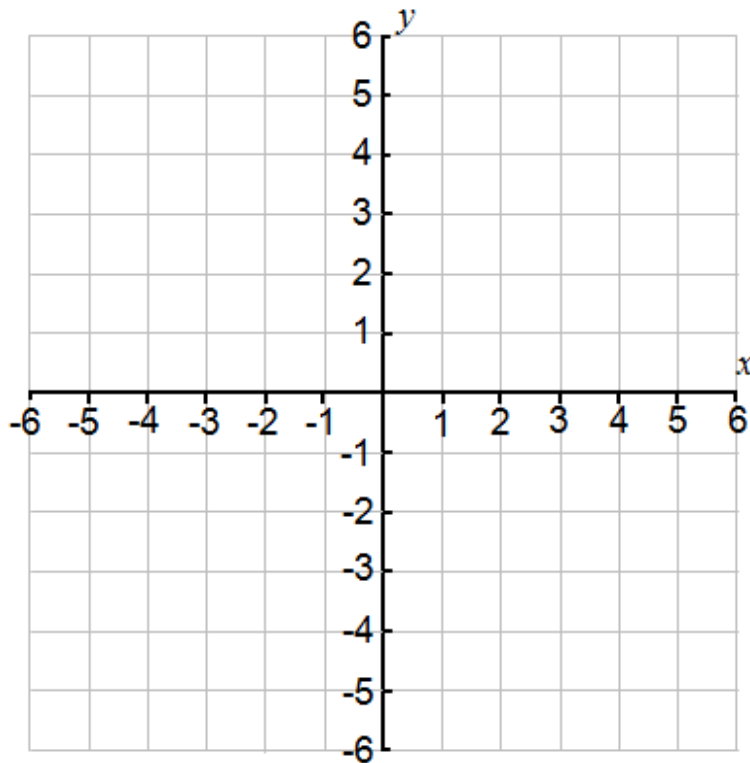


2 mark

Ref: 6P3 Describe positions on the full co-ordinate grid (all four quadrants)

4

What shape has the co-ordinates below on the grid



Label	Co-ordinate
A	( 0 , 4)
B	( - 3 , 0)
C	( 0 , - 4)
D	( 3 , 0)

The shape is a

2 mark

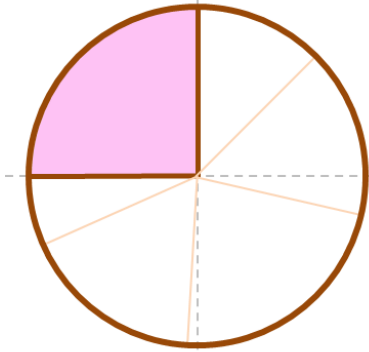
Ref: 6P3 Describe positions on the full co-ordinate grid (all four quadrants)

**1** Some boys and girls were asked what was their favourite colour.

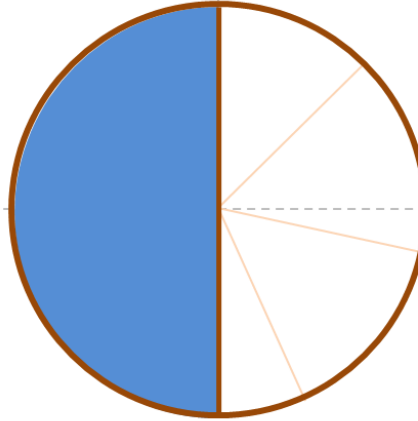
These two pie charts show the results.

The girls favourite colour was pink, shown shaded  
The boys favourite colour was blue, shown shaded

**36 girls**



**48 boys**



How many girls chose pink as their favourite

girls

1 mark

How many boys chose blue as their favourite

boys

1 mark

Ref: 6S1: Interpret and construct pie charts and line graphs and use these to solve problems

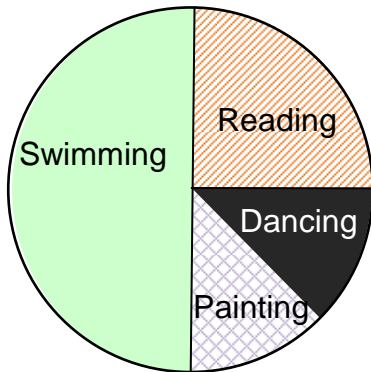


2

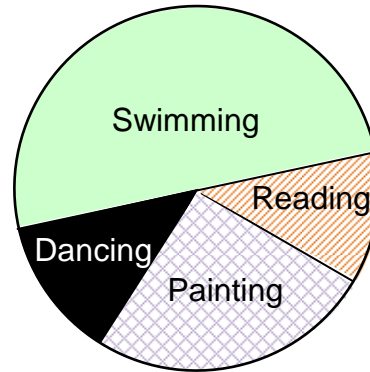
Two classes were asked what was their favourite hobby.

These two pie charts show the results.

**Class 5 - 32 children**



**Class 6 - 28 children**



How many **more** children chose swimming as their favourite in class 5 than class 6

children



1 mark

How many children chose painting in class 5

children



1 mark

Ref: 6S1: Interpret and construct pie charts and line graphs and use these to solve problems

1

Some of Henry's friends measured their weight.

Name	Weight (kg)
Henry	30.6
Poppy	27.8
Brooke	28.9
Esme	29.4
Ethan	32.5
Jayden	31.7
Ayesha	29.1

What is the mean weight of the children

Show  
your  
Method

kg

2 marks

Ref: 6S3: Calculate and interpret the mean as an average

**2** Poppy measured the length of some worms.

Name	Length(cm)
A	3.5
B	5.9
C	6.4
D	7.2
E	6.1
F	4.8

What is the mean length of the worms

Show  
your  
Method

A grid for showing the method to calculate the mean length of the worms. A small box labeled 'cm' is provided for the final answer.

2 marks

Ref: 6S3: Calculate and interpret the mean as an average

**3** David measured the temperatures over 5 days.

Day	temperature °C
Monday	-3
Tuesday	-1
Wednesday	0
Thursday	5
Friday	4

What is the mean temperature

Show  
your  
Method

°C

2 marks

Ref: 6S3: Calculate and interpret the mean as an average