

Handed out: 23rd April

Due in: 29th April

Must:

Version B White Rose MATHS

Length and perimeter

Name: _____

1 Complete the bar model.

1 mark

2 Circle the lengths that are less than 300 m.

450 m $\frac{1}{4}$ km 20 m 3 km

1 mark

3 What is the perimeter of the rectangle?

cm 1 mark

4 Here are three shapes.

Order the shapes from longest perimeter to shortest perimeter.

longest **shortest**

2 marks

5 All the shapes are regular polygons.

Tick all the shapes with a perimeter of 18 cm.

2 marks

6 Draw a rectangle with a perimeter of 22 cm.

1 mark

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7

Both shapes have the same perimeter.

Is Whitney correct? _____

Explain your answer.

1 mark

8 A rectangle has a perimeter of 20 cm.
The length of the rectangle is 9 cm.
What is the width of the rectangle?

cm 2 marks

9 Scott cycles 3 km and 700 m.
Brett cycles 1,800 m.
How much further does Scott cycle than Brett?

m 1 mark

10 Work out the perimeter of the shape.

cm 1 mark

11 Here is a rectangle.

Each side length is a whole number less than 10 m.
Circle all the possible **perimeters** of the rectangle.

15 m 18 m 23 m 26 m

2 marks

Should:

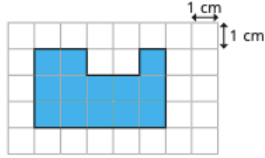
Version B

White Rose
MATHS

Perimeter and area

Name: _____

1 Here is a shape on a centimetre-squared grid.



What is the area of the shape?

cm²

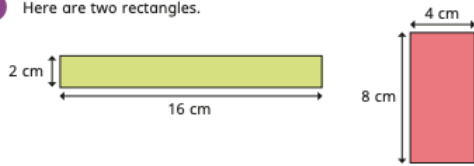
1 mark

What is the perimeter of the shape?

cm

1 mark

2 Here are two rectangles.



Are the statements true or false?

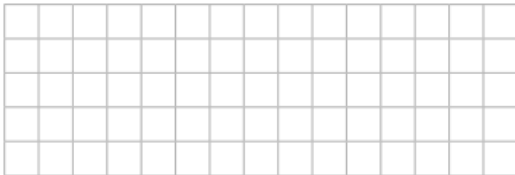
The shapes have the same area.

1 mark

The shapes have the same perimeter.

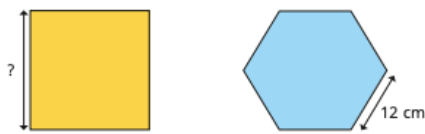
1 mark

6 Draw a rectangle with an area of 15 squares and a perimeter of 16 squares.



2 marks

7 The square and the regular hexagon have the same perimeter.

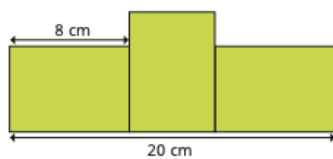


What is the length of one side of the square?

cm

2 marks

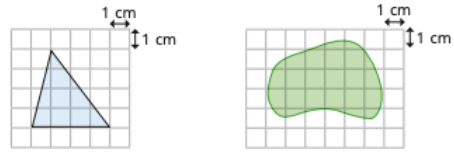
8 The shape is made up of three identical rectangles.



Work out the area of the shape.

cm²

3 Estimate the areas of the shapes.



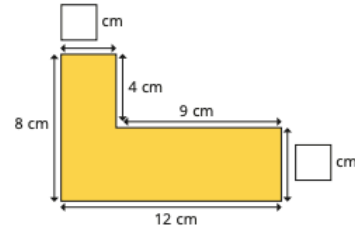
cm²

cm²

2 marks

4 Here is a shape.

Work out the unknown lengths.



Work out the perimeter of the shape.

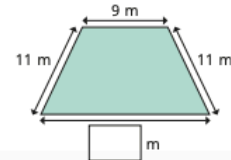
cm

1 mark

1 mark

5 The perimeter of the shape is 50 m.

Work out the unknown length.



2 marks

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9 Mr Trent wants to paint a 4 m by 8 m wall.

One tin of paint will cover 5 m²

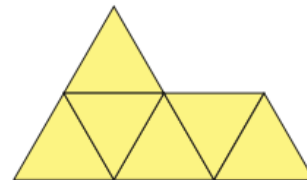
How many tins of paint will Mr Trent need to buy?

2 marks

10 An equilateral triangle has a perimeter of 18 cm.



Dexter uses six of the triangles to make a shape.



What is the perimeter of Dexter's shape?

cm


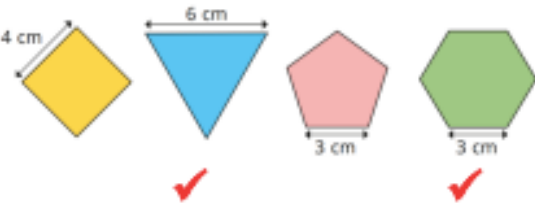
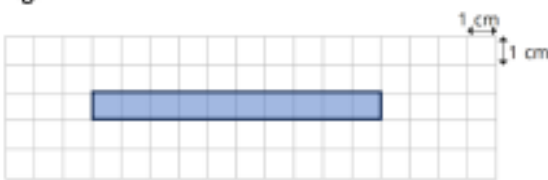
2 marks

Could:

Please mark your must and should homework. This work was revision. Please revise any questions you got incorrect because it's really important to practise.

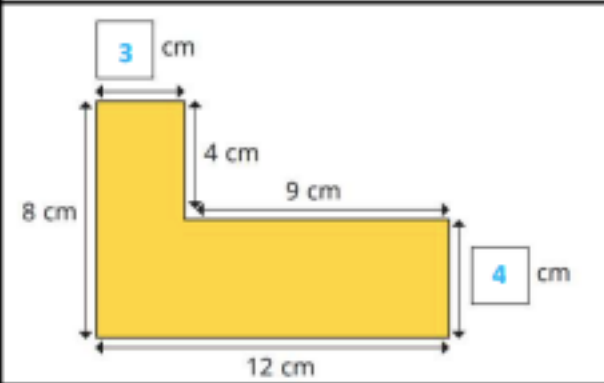
Must answers:

Y4 – Spring – Block 2 – Length and perimeter B – Answers

Question	Answer	Marks	Notes and guidance
1		1	
2	450 m $\frac{1}{4}$ km 20 m 3 km	1	
3	18 cm	1	
4	C, B, A	2	Award 1 mark for two letters correctly indicated.
5		2	Award 1 mark for each answer correctly identified.
6	E.g. 	1	Accept slight inaccuracies if the intention is clear. Accept any rectangle with a perimeter of 22 cm e.g. Length: 9 cm Width: 2 cm Length: 8 cm Width: 3 cm
7	"Yes" because both shapes have a perimeter of 14 cm	1	Do not award the mark for "yes" without an explanation involving both shapes having a perimeter of 14 cm.
8	1 cm	2	Award 1 mark for a correct method and no more than one arithmetical error.
9	1,900 m	1	

Question	Answer	Marks	Notes and guidance
10	38 cm	1	
11	15 m 18 m 23 m 26 m	2	Award 1 mark for each answer correctly indicated with no additional answers identified.

Should answers:

Question	Answer	Marks	Notes and guidance
1	13 cm ²	1	
	18 cm	1	
2	True	1	
	False	1	
3	8 cm ²	1	Accept slight inaccuracies with evidence of appropriate working out.
	Any answer between 15 cm ² - 17 cm ²	1	
4		1	
	40 cm	1	
5	19 cm	2	Award 1 mark for evidence of an appropriate method with no more than one arithmetical error.
6	<p>Any rectangle that has an area of 15 squares and a perimeter of 16 squares. E.g.</p> <p>A rectangle with a length of 5 squares and a width of 3 squares.</p>	2	Award 1 mark if the rectangle satisfies one of the conditions e.g. an area of 15 squares but the perimeter is not 16 squares.

Question	Answer	Marks	Notes and guidance
7	18 cm	2	Award 1 mark for sight of 72 m.
8	96 cm ²	2	Award 1 mark for recognising that 1 rectangle has an area of 32 cm ²
9	7 tins	2	Award 1 mark for sight of 32 m ²
10	48 cm	2	Award 1 mark for use of an appropriate method with no more than one arithmetical error.