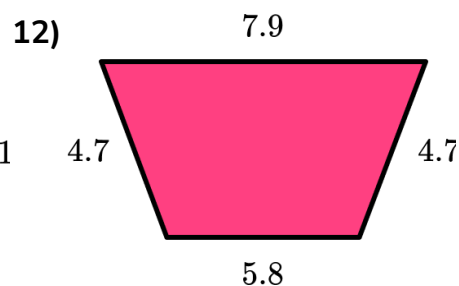
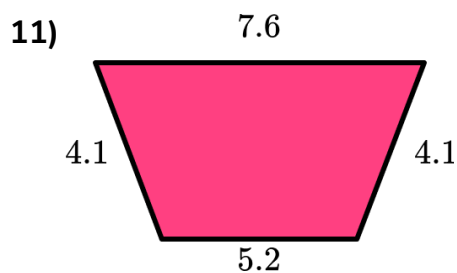
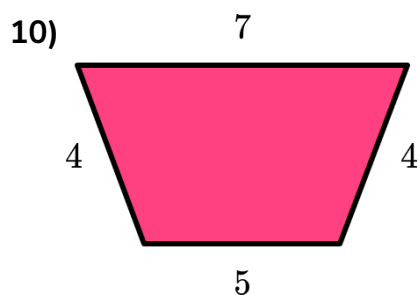
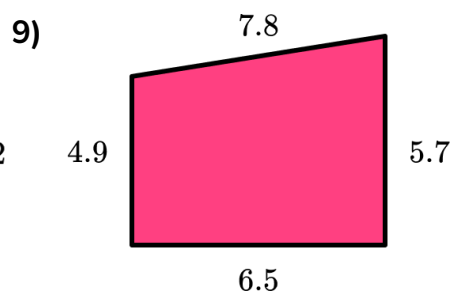
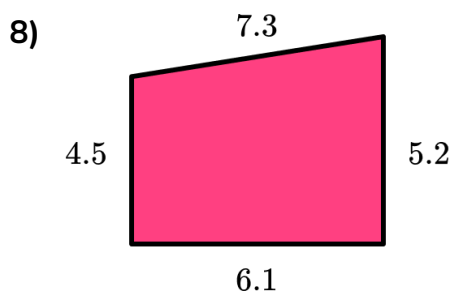
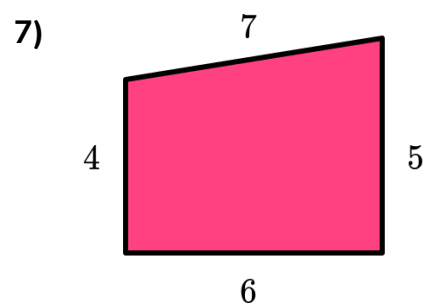
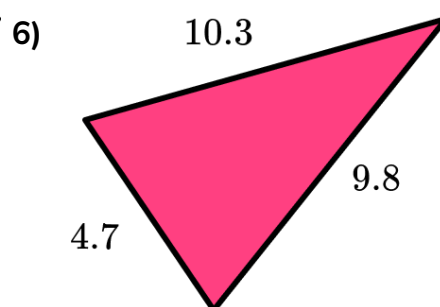
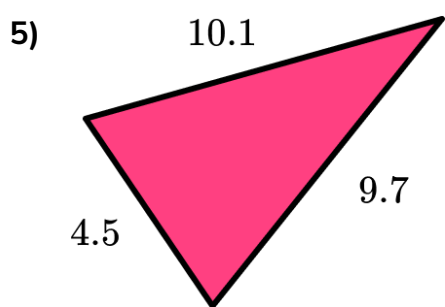
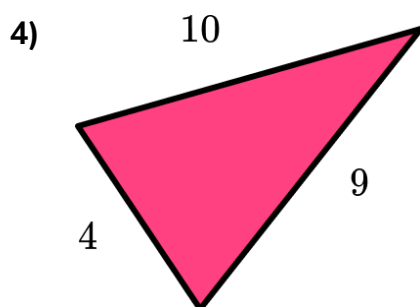
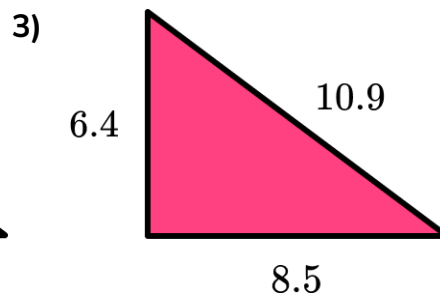
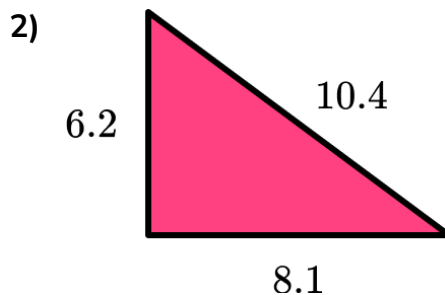
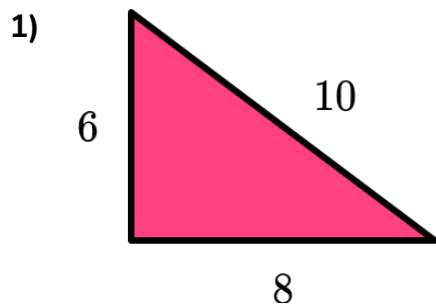


## How to work out perimeter - Worksheet

### Skill

#### Group A - Irregular shapes

Find the perimeter: (Diagrams NOT to scale. All lengths are in *cm*.)



## How to work out perimeter - Worksheet

### Group B - Rectangles

Find the perimeter: (Diagrams NOT to scale. All lengths are in *cm*.)

1) 4



3

2) 4.3



3.2

3) 4.7



3.5

4) 5



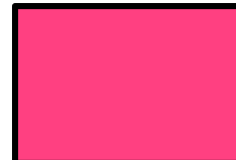
4

5) 5.2



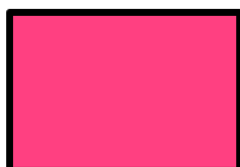
4.5

6) 5.7



4.8

7) 8



5

8) 8.3



5.1

9) 8.7



5.6

10) 9



4

11) 9.6



4.2

12) 9.7



4.9

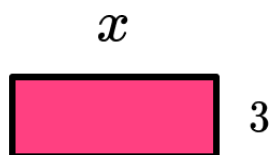
## How to work out perimeter - Worksheet

### Group C - Missing side

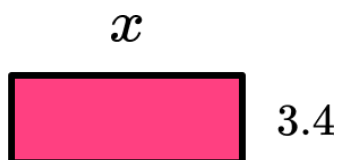
Find the missing side given the perimeter  $P$  and one side length of a rectangle:

(Diagrams NOT to scale. All lengths are in  $cm$ .)

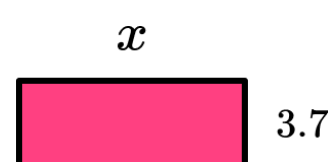
1)  $P = 18cm$



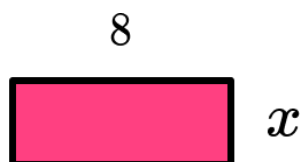
2)  $P = 18.6cm$



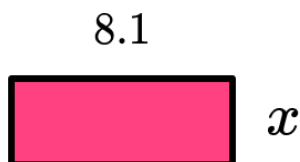
3)  $P = 18.9cm$



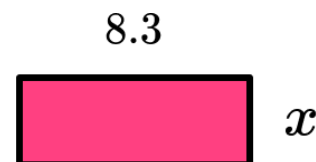
4)  $P = 22cm$



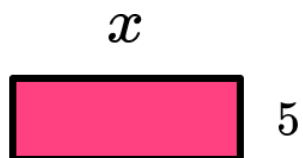
5)  $P = 22.8cm$



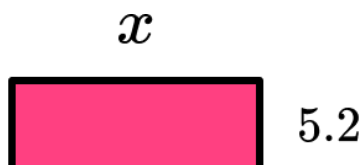
6)  $P = 22.9cm$



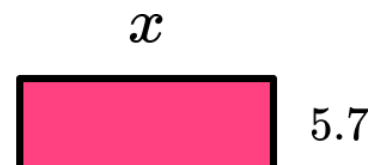
7)  $P = 24cm$



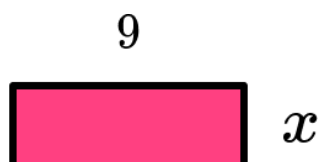
8)  $P = 24.2cm$



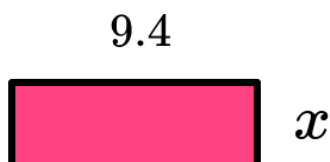
9)  $P = 24.5cm$



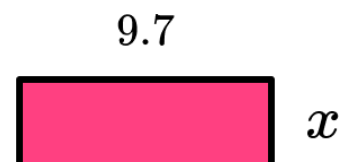
10)  $P = 30cm$



11)  $P = 30.2cm$



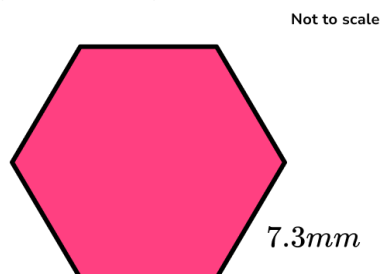
12)  $P = 30.5cm$



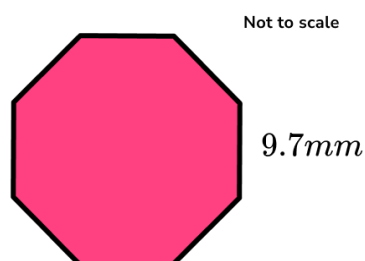
## How to work out perimeter - Worksheet

### Applied

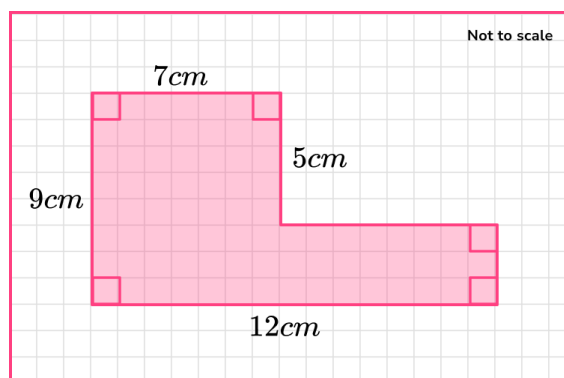
- 1) (a) Find the perimeter of this regular hexagon:



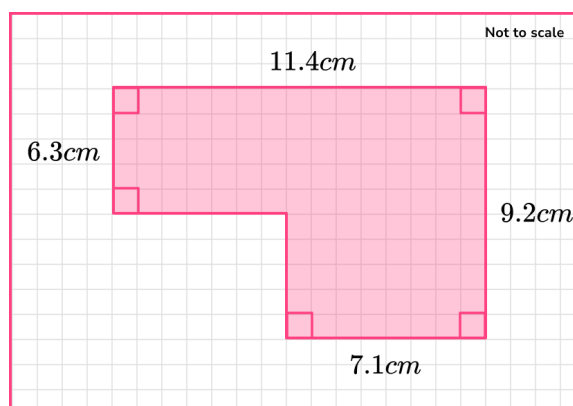
- (b) Find the perimeter of this regular octagon:



- 2) (a) Find the perimeter:

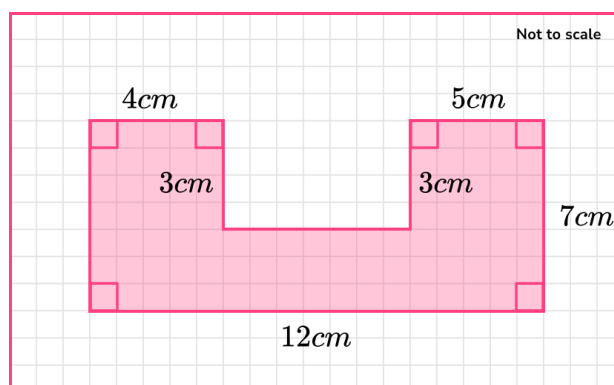


- (b) Find the perimeter:

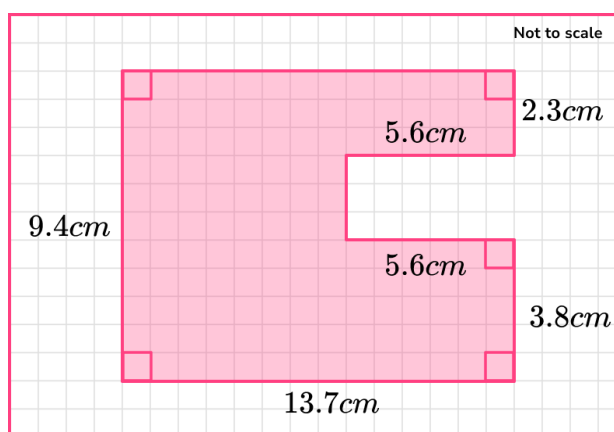


## How to work out perimeter - Worksheet

3) (a) Find the perimeter:

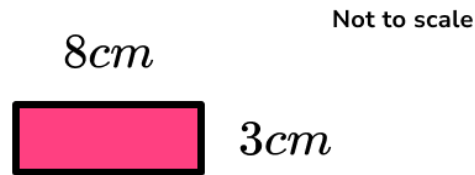


(b) Find the perimeter:

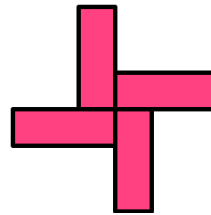


## How to work out perimeter - Worksheet

- 4) Here is a rectangle:

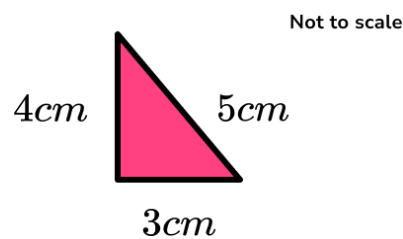


A logo is made of 4 of these rectangles.

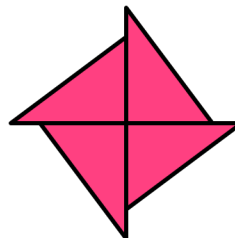


- (a) Find the perimeter of the logo.

Here is a right-angled triangle:



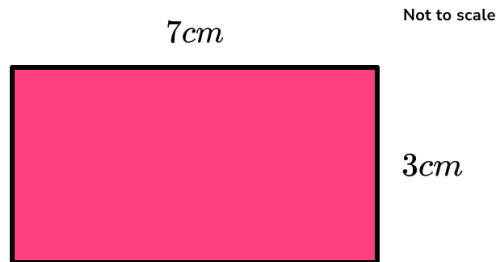
A badge is made of 4 of these triangles.



- (b) Find the perimeter of the badge.

## How to work out perimeter - Exam Questions

- 1) Here is a rectangle.



What is its perimeter?

Circle the correct answer:

21cm

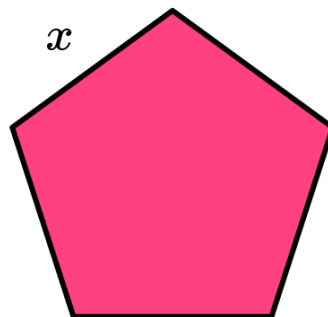
11cm

14cm

20cm

(1 mark)

- 
- 2) The perimeter of a regular pentagon is 73.2cm.

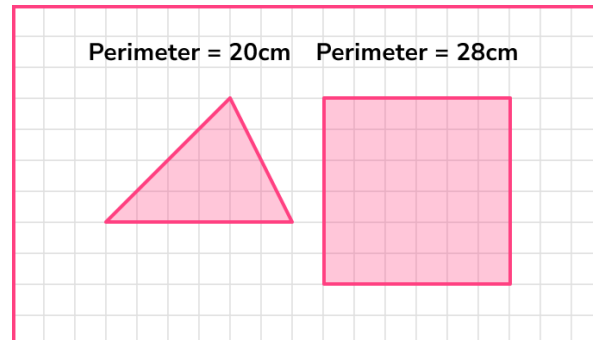


Find the length of one side.

.....cm  
(2 marks)

## How to work out perimeter - Exam Questions

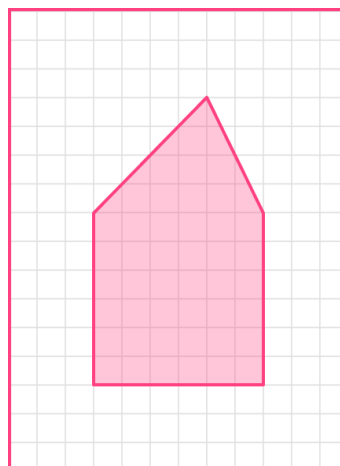
- 3) The diagram shows a triangle and a square.



The perimeter of the triangle is  $20\text{cm}$ .

The perimeter of the square is  $28\text{cm}$ .

The shapes are put together to make a pentagon:

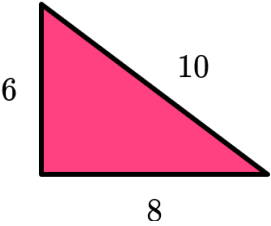
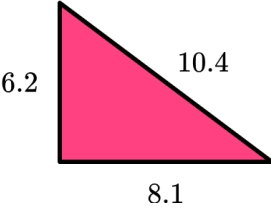
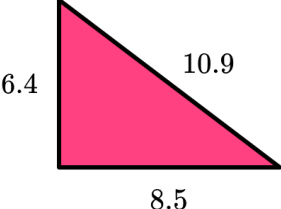
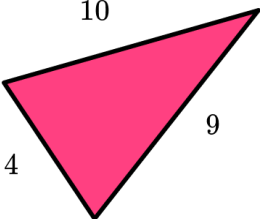
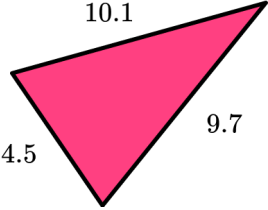
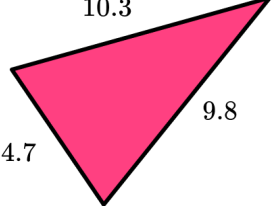


Determine the perimeter of the pentagon.

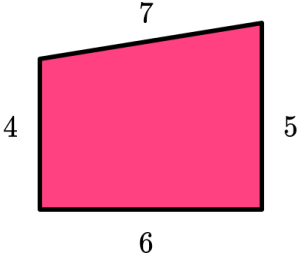
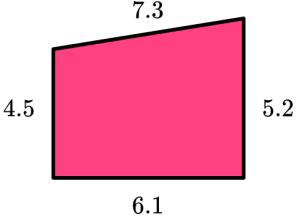
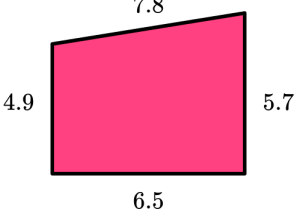
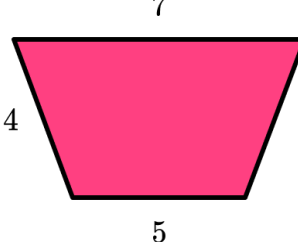
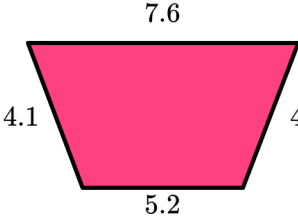
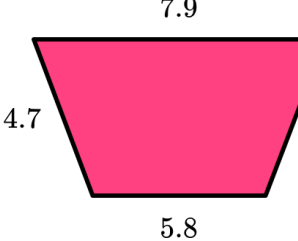
.....cm  
(3 marks)










## How to work out perimeter - Answers

	Question	Answer
	Skill Questions	
Group A	<p>Find the perimeter: (Diagrams NOT to scale. All lengths are in <i>cm</i>.)</p> <p>1) </p> <p>2) </p> <p>3) </p> <p>4) </p> <p>5) </p> <p>6) </p>	<p>1) 24<i>cm</i></p> <p>2) 24.7<i>cm</i></p> <p>3) 25.8<i>cm</i></p> <p>4) 23<i>cm</i></p> <p>5) 24.3<i>cm</i></p> <p>6) 24.8<i>cm</i></p>






## How to work out perimeter - Answers

Group A contd	<p>7) </p> <p>8) </p> <p>9) </p> <p>10) </p> <p>11) </p> <p>12) </p>	<p>7) 22cm</p> <p>8) 23.1cm</p> <p>9) 24.9cm</p> <p>10) 20cm</p> <p>11) 21cm</p> <p>12) 23.1cm</p>
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## How to work out perimeter - Answers

Group B	Find the perimeter: (Diagrams NOT to scale. All lengths are in <i>cm</i> .)	
	<p>1) </p>	1) 14 <i>cm</i>
	<p>2) </p>	2) 15 <i>cm</i>
	<p>3) </p>	3) 16.4 <i>cm</i>
	<p>4) </p>	4) 18 <i>cm</i>
	<p>5) </p>	5) 19.4 <i>cm</i>
	<p>6) </p>	6) 21 <i>cm</i>
	<p>7) </p>	7) 26 <i>cm</i>







## How to work out perimeter - Answers

Group B contd	8)	8.3		5.1	8) 26.8cm
	9)	8.7		5.6	9) 28.6cm
	10)	9		4	10) 26cm
	11)	9.6		4.2	11) 27.6cm
	12)	9.7		4.9	12) 29.2cm

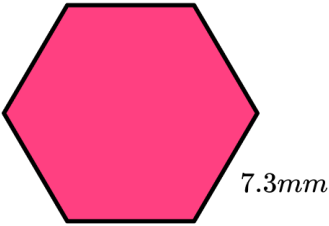
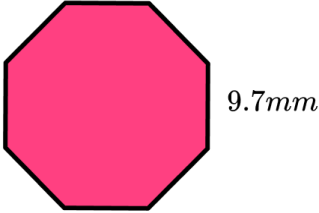
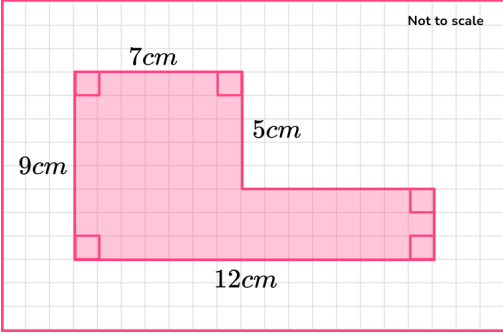
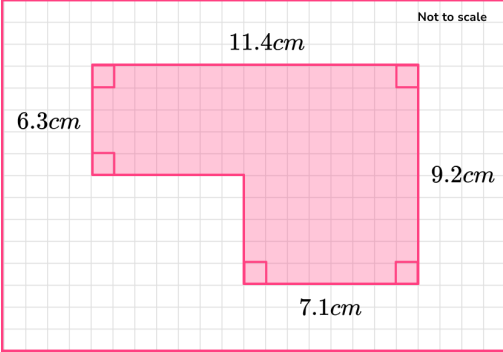
## How to work out perimeter - Answers

Group C	<p>Find the missing side given the perimeter <math>P</math> and one side length of a rectangle: (Diagrams NOT to scale. All lengths are in <math>cm</math>.)</p> <p>1) <math>P = 18cm</math> <math>x</math></p>  <p>2) <math>P = 18.6cm</math> <math>x</math></p>  <p>3) <math>P = 18.9cm</math> <math>x</math></p>  <p>4) <math>P = 22cm</math> 8</p>  <p>5) <math>P = 22.8cm</math> 8.1</p>  <p>6) <math>P = 22.9cm</math> 8.3</p> 	<p>1) <math>6cm</math></p> <p>2) <math>5.9cm</math></p> <p>3) <math>5.75cm</math></p> <p>4) <math>3cm</math></p> <p>5) <math>3.3cm</math></p> <p>6) <math>3.15cm</math></p>
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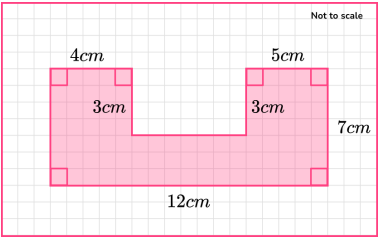
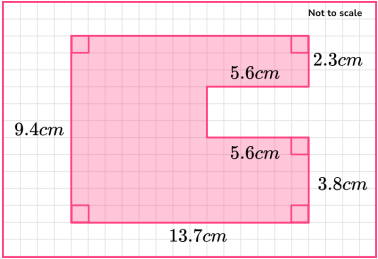

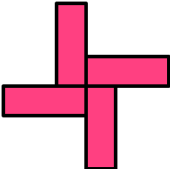
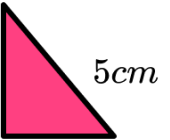
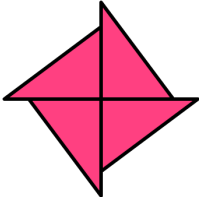
## How to work out perimeter - Answers

Group C contd	7) $P = 24cm$ $x$  5	7) 7cm
	8) $P = 24.2cm$ $x$  5.2	8) 6.9cm
	9) $P = 24.5cm$ $x$  5.7	9) 6.55cm
	10) $P = 30cm$ 9  $x$	10) 6cm
	11) $P = 30.2cm$ 9.4  $x$	11) 5.7cm
	12) $P = 30.5cm$ 9.7  $x$	12) 5.55cm

## How to work out perimeter - Answers

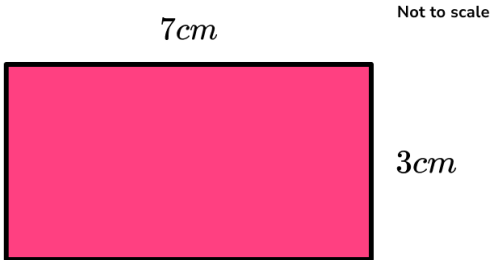
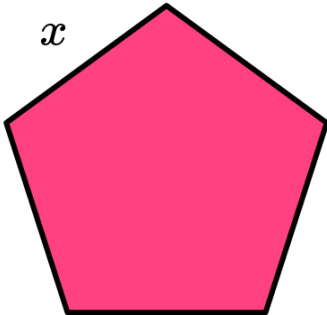
	Question	Answer
	Applied Questions	
1)	<p><b>a)</b> Find the perimeter of this regular hexagon:</p> <p style="text-align: center;">Not to scale</p>  <p style="text-align: right;"><math>7.3mm</math></p> <p><b>b)</b> Find the perimeter of this regular octagon:</p> <p style="text-align: center;">Not to scale</p>  <p style="text-align: right;"><math>9.7mm</math></p>	<p><b>a)</b> <math>43.8mm</math></p> <p><b>b)</b> <math>77.6mm</math></p>
2)	<p><b>a)</b> Find the perimeter:</p> <p style="text-align: right;">Not to scale</p>  <p><b>b)</b> Find the perimeter:</p> <p style="text-align: right;">Not to scale</p> 	<p><b>a)</b> <math>42cm</math></p> <p><b>b)</b> <math>41.2cm</math></p>

## How to work out perimeter - Answers

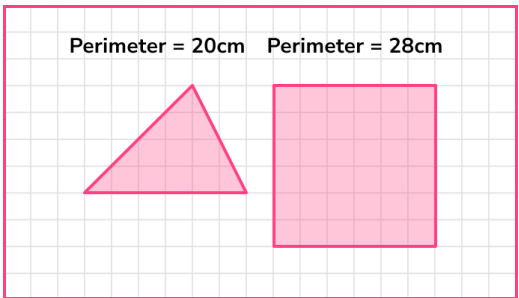
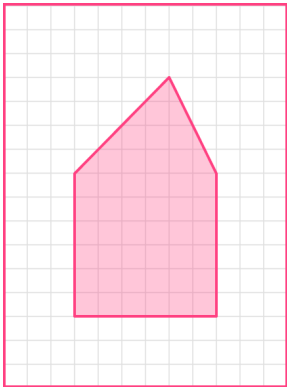
<p><b>3)</b></p>	<p><b>a)</b> Find the perimeter:</p>  <p><b>b)</b> Find the perimeter:</p> 	<p><b>a)</b> 44cm</p> <p><b>b)</b> 57.4cm</p>
<p><b>4)</b></p>	<p>Here is a rectangle:</p> <p style="text-align: right;">Not to scale</p> <p style="text-align: center;">8cm</p>  <p style="text-align: right;">3cm</p> <p>A logo is made of 4 of these rectangles.</p>  <p><b>a)</b> Find the perimeter of the logo.</p> <p>Here is a right-angled triangle:</p> <p style="text-align: right;">Not to scale</p>  <p style="text-align: center;">3cm</p> <p>A badge is made of 4 of these triangles.</p>  <p><b>b)</b> Find the perimeter of the badge.</p>	<p><b>a)</b> 64cm</p> <p><b>b)</b> 24 cm</p>



## How to work out perimeter - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	<p>Here is a rectangle.</p> <div style="text-align: center;">  <p>7cm      Not to scale</p> <p>3cm</p> </div> <p>What is its perimeter? Circle the correct answer:</p> <p>21cm      11cm      14cm      20cm</p>	20cm	(1)
2)	<p>The perimeter of a regular pentagon is 73.2cm.</p> <div style="text-align: center;">  <p><math>x</math></p> </div> <p>Find the length of one side.</p>	<p><math>73.2 \div 5</math></p> <p>14.64cm</p>	<p>(1)</p> <p>(1)</p>

## How to work out perimeter - Mark Scheme

3)	<p>The diagram shows a triangle and a square.</p>  <p>The perimeter of the triangle is 20cm. The perimeter of the square is 28cm. The shapes are put together to make a pentagon.</p>  <p>Find the perimeter of the pentagon.</p>	$28 \div 4 = 7$  $28 + 20 - 7 - 7$ oe  34cm	(1)  (1)  (1)
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