

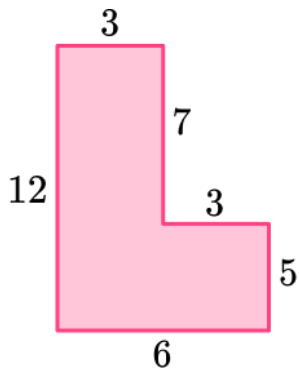
Perimeter of Compound Shapes - Worksheet

Skill

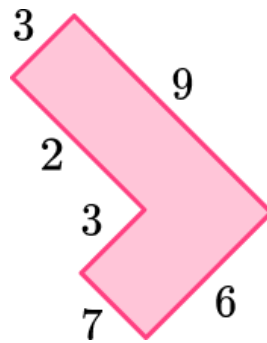
Group A - Perimeter (all lengths given)

Find the perimeter of the following shapes. All measurements are in cm:

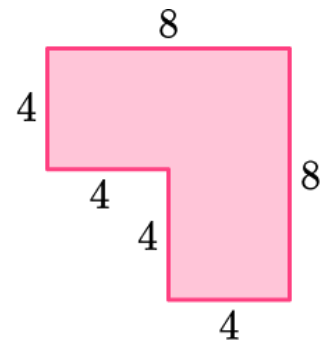
1)



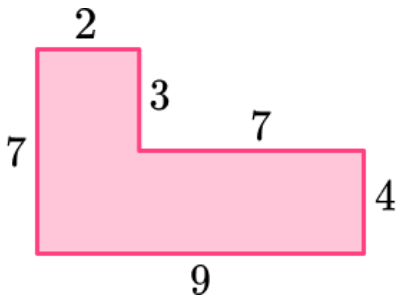
2)



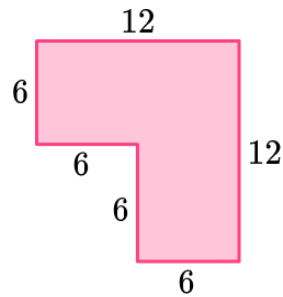
3)



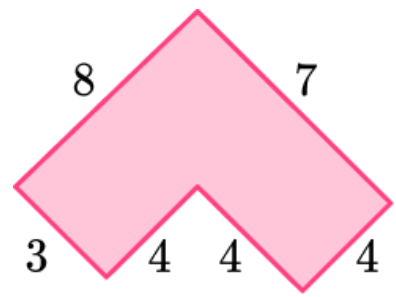
4)



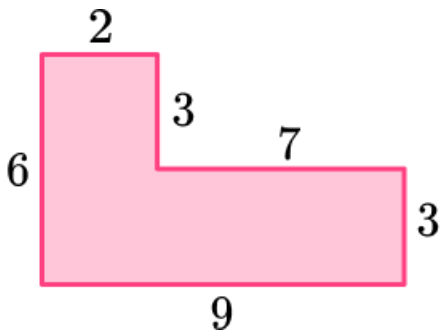
5)



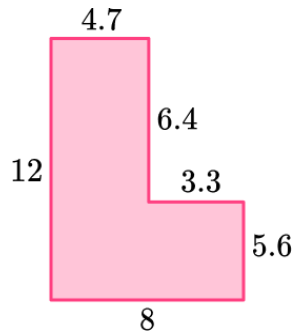
6)



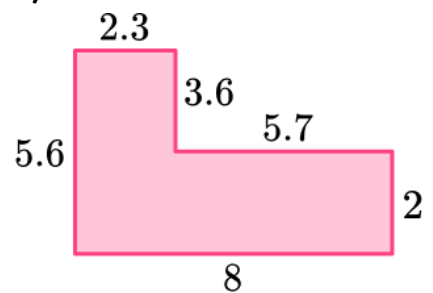
7)



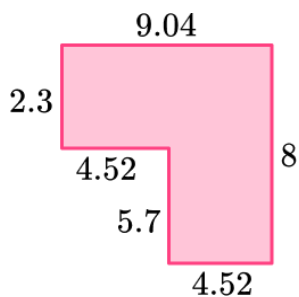
8)



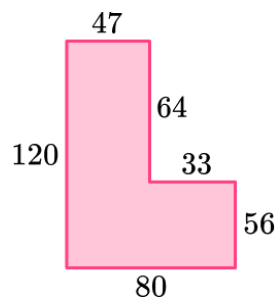
9)



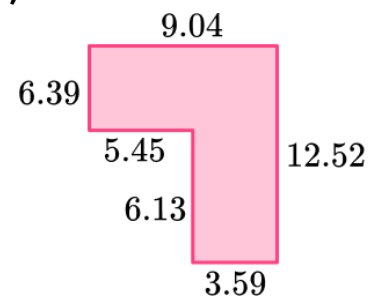
10)



11)



12)

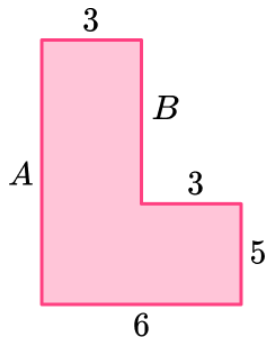


Perimeter of Compound Shapes - Worksheet

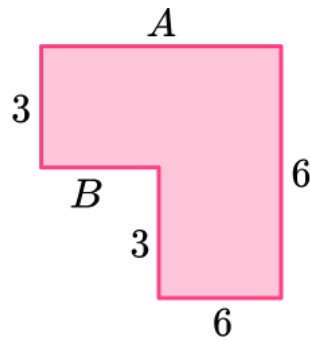
Group B - Finding a missing side given the perimeter

Find the missing sides, given the perimeter:

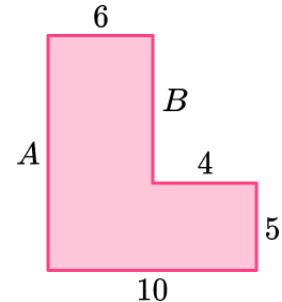
1) Perimeter = 42cm



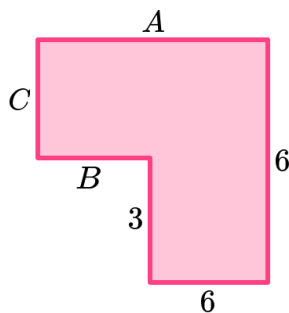
2) Perimeter = 42cm



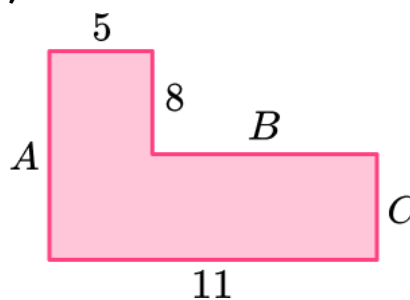
3) Perimeter = 54cm



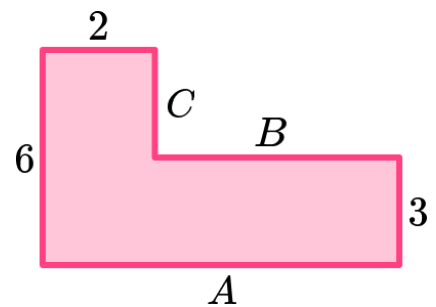
4) Perimeter = 36cm



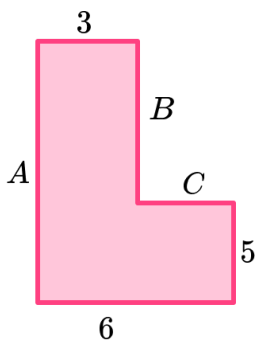
5) Perimeter = 54cm



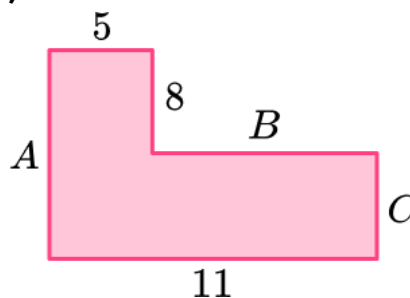
6) Perimeter = 36cm



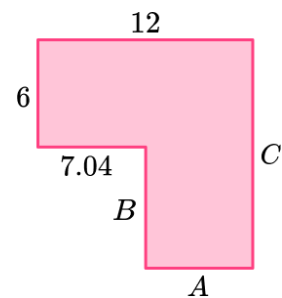
7) Perimeter = 36cm



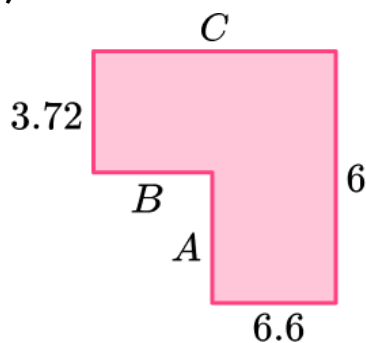
8) Perimeter = 42cm



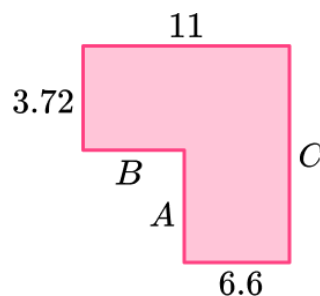
9) Perimeter = 42cm



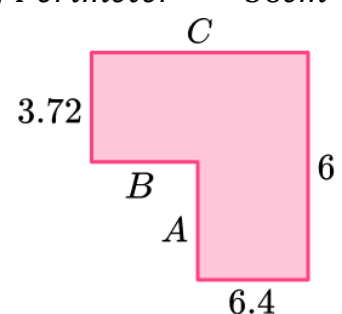
10) Perimeter = 42cm



11) Perimeter = 42cm



12) Perimeter = 36cm

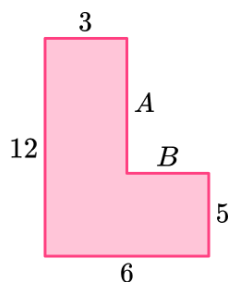


Perimeter of Compound Shapes - Worksheet

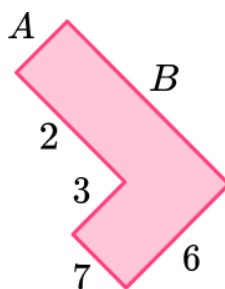
Group C - Perimeter (missing lengths)

Find the perimeter of the following shapes. Hence or otherwise, determine the lengths of A , B and C . All measurements are in cm:

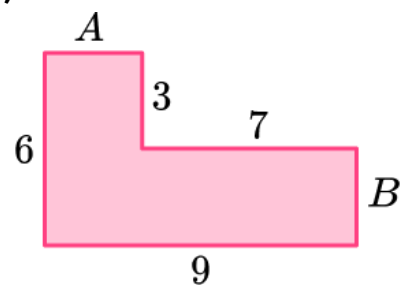
1)



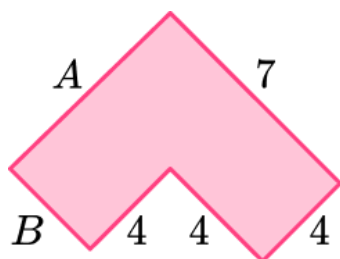
2)



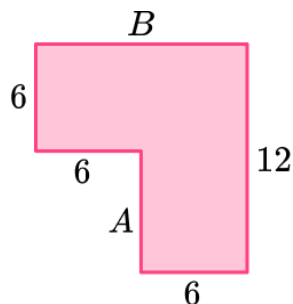
3)



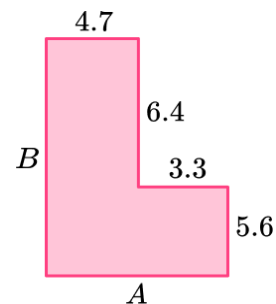
4)



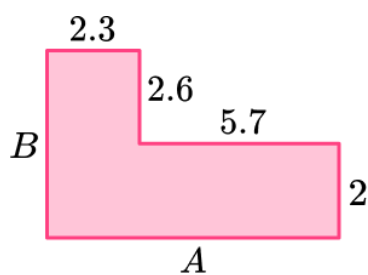
5)



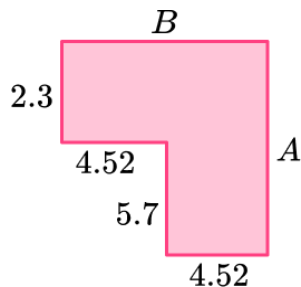
6)



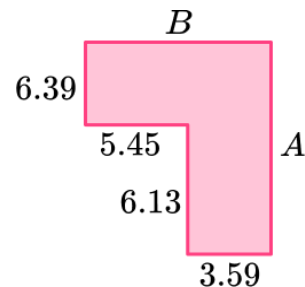
7)



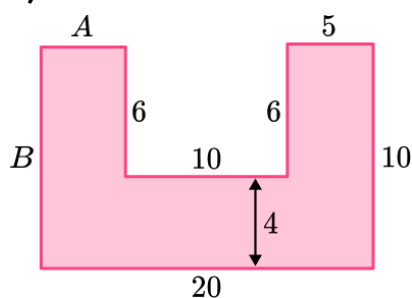
8)



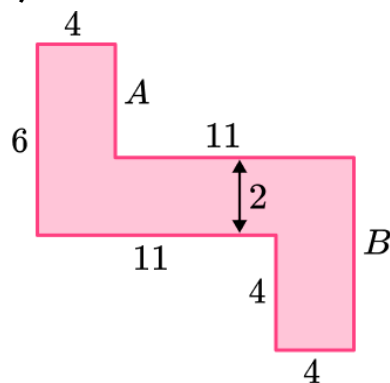
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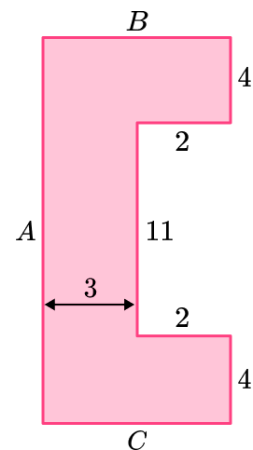
10)



11)



12)



Perimeter of Compound Shapes - Worksheet

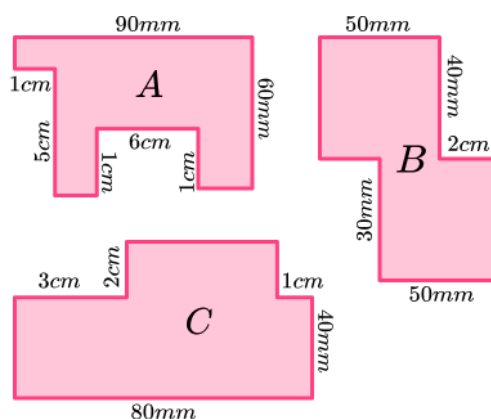
Applied

- 1) Each square has an area of 4cm^2 .

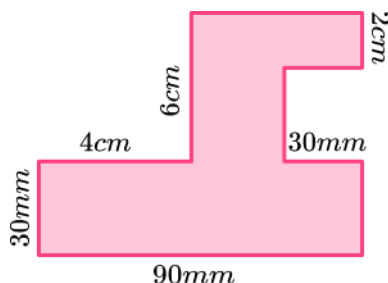


Draw a compound shape that has a perimeter of 20cm .

- 2) Which shape is the odd one out? Explain how you know.



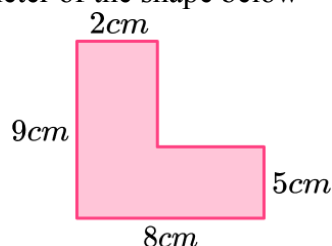
- 3) Laura says that this shape has a perimeter of 40cm .



- (a) Is Laura correct?
- (b) Explain your answer.

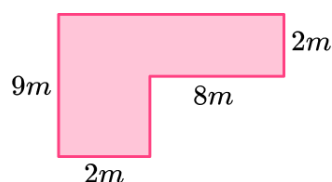
Perimeter of Compound Shapes - Exam Questions

- 1) Calculate the perimeter of the shape below



.....cm
(2 marks)

- 2) Leo is a landscape gardener. He is redesigning a garden for his customer. He wants to build a new fence around the garden.



Each metre of fencing will cost £6.99
Work out the cost of the new fence.

.....
(4 marks)

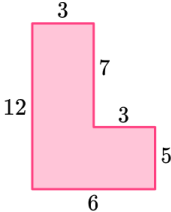
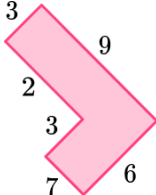
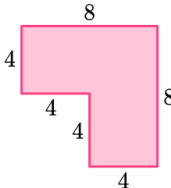
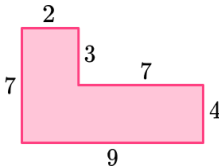
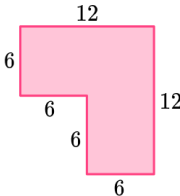
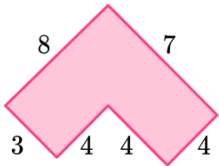
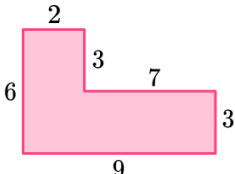
- 3) A swimming pool which is rectangular in shape has a length which is three times its width.

The perimeter of the swimming pool is 16m.

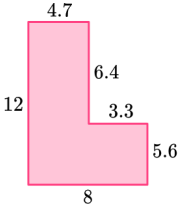
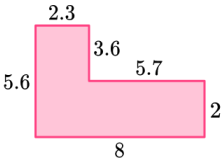
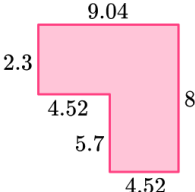
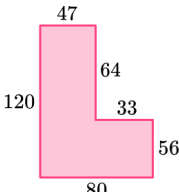
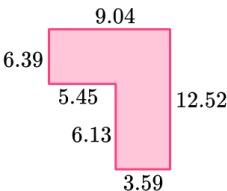
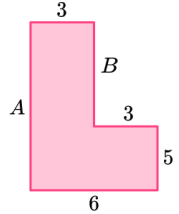
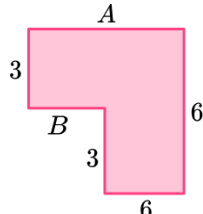
Work out the dimensions of the pool.

.....
(4 marks)

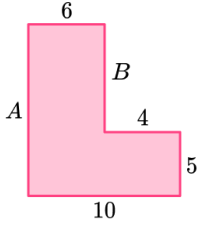
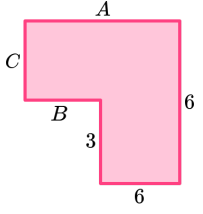
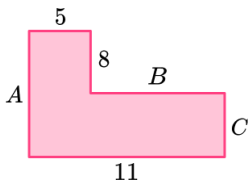
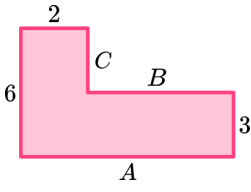
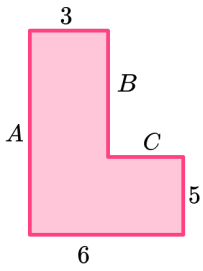
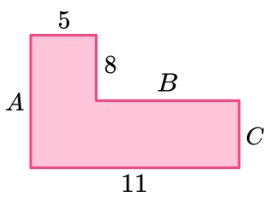
Perimeter of Compound Shapes - Answers

	Question	Answer
	Skill Questions	
Group A	<p>Find the perimeter of the following shapes. All measurements are in cm:</p> <p>1) </p> <p>2) </p> <p>3) </p> <p>4) </p> <p>5) </p> <p>6) </p> <p>7) </p>	<p>1) 36cm</p> <p>2) 30cm</p> <p>3) 32cm</p> <p>4) 32cm</p> <p>5) 48cm</p> <p>6) 30cm</p> <p>7) 30cm</p>

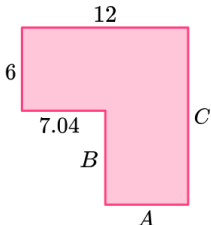
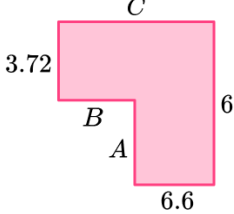
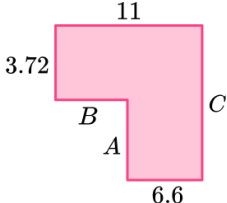
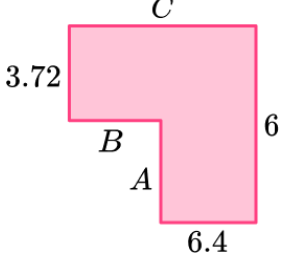
Perimeter of Compound Shapes - Answers

<p>Group A contd</p>	<p>8) </p> <p>9) </p> <p>10) </p> <p>11) </p> <p>12) </p>	<p>8) 40cm</p> <p>9) 27.2cm</p> <p>10) 34.08cm</p> <p>11) 400cm</p> <p>12) 43.12cm</p>
<p>Group B</p>	<p>Find the missing sides, given the perimeter:</p> <p>1) <i>Perimeter</i> = 42cm</p> <p></p> <p>2) <i>Perimeter</i> = 42cm</p> <p></p>	<p>1) A=15, B=10</p> <p>2) A=15, B=9</p>

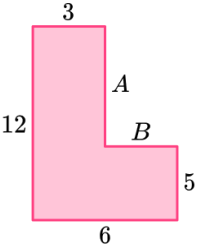
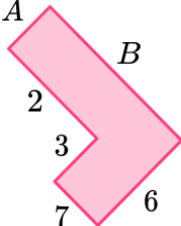
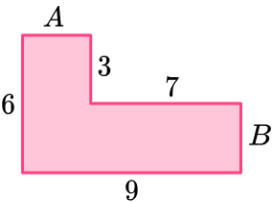
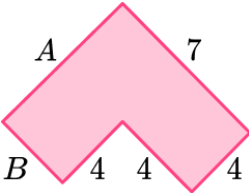
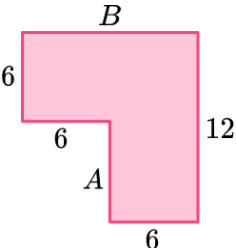
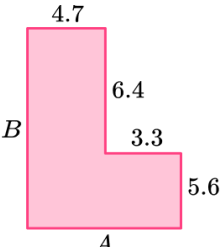
Perimeter of Compound Shapes - Answers

Group B contd	<p>3) <i>Perimeter = 54cm</i></p>  <p>4) <i>Perimeter = 36cm</i></p>  <p>5) <i>Perimeter = 54cm</i></p>  <p>6) <i>Perimeter = 36cm</i></p>  <p>7) <i>Perimeter = 36cm</i></p>  <p>8) <i>Perimeter = 42cm</i></p> 	<p>3) $A = 17, B = 12$</p> <p>4) $A = 12, B = 6, C = 3$</p> <p>5) $A = 16, B = 6, C = 8$</p> <p>6) $A = 12, B = 10, C = 3$</p> <p>7) $A = 12, B = 7, C = 3$</p> <p>8) $A = 10, B = 6, C = 2$</p>
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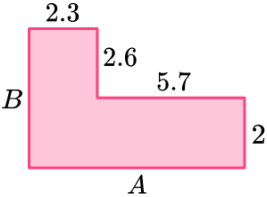
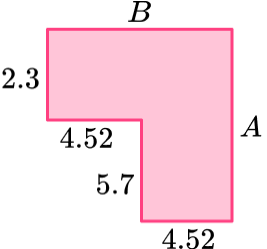
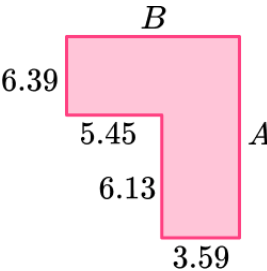
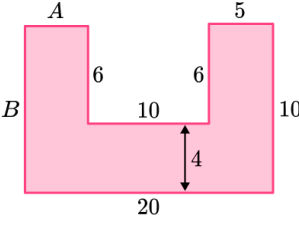
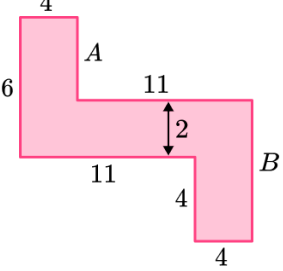
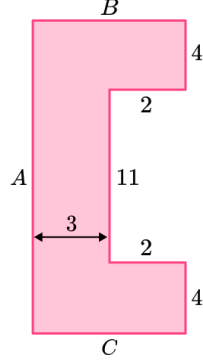
Perimeter of Compound Shapes - Answers

Group B contd	<p>9) $Perimeter = 42cm$</p> 	<p>9) $A = 4.96, B = 3, C = 9$</p>
	<p>10) $Perimeter = 42cm$</p> 	<p>10) $A = 2.28, B = 8.4, C = 15$</p>
	<p>11) $Perimeter = 42cm$</p> 	<p>11) $A = 6.28, B = 4.4, C = 10$</p>
	<p>12) $Perimeter = 36cm$</p> 	<p>12) $A = 2.28, B = 5.6, C = 12$</p>

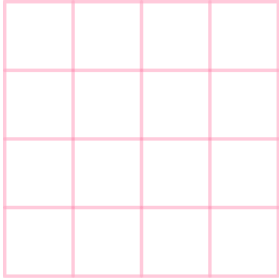
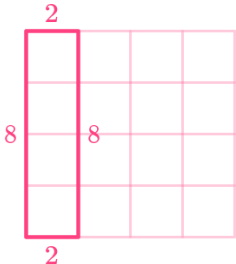
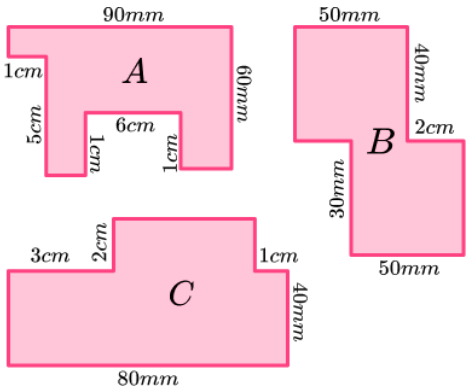
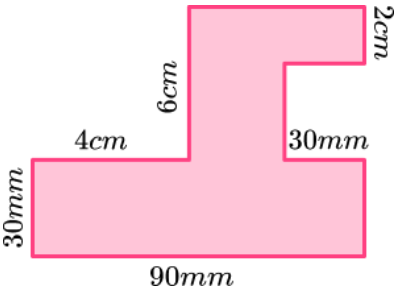
Perimeter of Compound Shapes - Answers

Group C	<p>Find the perimeter of the following shapes. Hence or otherwise, determine the lengths of A, B and C. All measurements are in cm:</p> <p>1) </p> <p>2) </p> <p>3) </p> <p>4) </p> <p>5) </p> <p>6) </p>	<p>1) $P = 36\text{cm}$ $A = 7\text{cm}$ $B = 3\text{cm}$</p> <p>2) $P = 30\text{cm}$ $A = 3\text{cm}$ $B = 9\text{cm}$</p> <p>3) $P = 30\text{cm}$ $A = 2\text{cm}$ $B = 3\text{cm}$</p> <p>4) $P = 30\text{cm}$ $A = 8\text{cm}$ $B = 3\text{cm}$</p> <p>5) $P = 48\text{cm}$ $A = 6\text{cm}$ $B = 12\text{cm}$</p> <p>6) $P = 40\text{cm}$ $A = 8\text{cm}$ $B = 12\text{cm}$</p>
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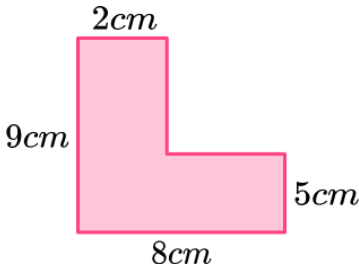
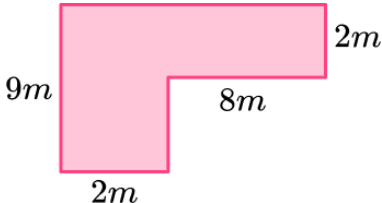
Perimeter of Compound Shapes - Answers

Group C contd	<p>7) </p> <p>8) </p> <p>9) </p> <p>10) </p> <p>11) </p> <p>12) </p>	<p>7) $P = 25.2cm$ $A = 8cm$ $B = 4.6cm$</p> <p>8) $P = 34.08cm$ $A = 8cm$ $B = 9.04cm$</p> <p>9) $P = 43.12cm$ $A = 12.52cm$ $B = 9.04cm$</p> <p>10) $P = 72cm$ $A = 5cm$ $B = 10cm$</p> <p>11) $P = 50cm$ $A = 4cm$ $B = 6cm$</p> <p>12) $P = 52cm$ $A = 19cm$ $B = 5cm$ $C = 5cm$</p>
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Perimeter of Compound Shapes - Answers

	Question	Answer
	Applied Questions	
1)	<p>Each square has an area of 4cm^2.</p>  <p>Draw a compound shapes that has a perimeter of 20cm.</p>	<p>Any correctly drawn shape E.g.</p> 
2)	<p>Which shape is the odd one out? Explain how you know.</p> 	<p>A is the odd one out. B and C both have a perimeter of 28cm, A has a perimeter of 32cm.</p>
3)	<p>Laura says that this shape has a perimeter of 40cm.</p>  <p>a) Is Laura correct? b) Explain your answer.</p>	<p>a) No b) The perimeter is 42cm.</p>

Perimeter of Compound Shapes - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Calculate the perimeter of the shape below 	$2 + 9 + 8 + 5 + 6 + 4$ $34cm$	(1) (1)
2)	Leo is a landscape gardener. He is redesigning a garden for his customer. He wants to build a new fence around the garden.  Each metre of fencing will cost £6.99 Work out the cost of the new fence.	$2 + 9 + 10 + 2 + 8 + 7$ $38m$ 38×6.99 $\pounds 265.62$	(1) (1) (1) (1)
3)	A swimming pool which is rectangular in shape has a length which is three times its width. The perimeter of the swimming pool is $16m$. Work out the dimensions of the pool.	$x + 3x + x + 3x = 8x$ oe $8x = 16$ $x = 2$ $2m$ and $6m$	(1) (1) (1) (1)

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