Measurement: Calculate Perimeter

Aim	Success Criteria	Resources
Measure the perimeter of simple 2-D shapes. To calculate the perimeter of simple shapes.	I can calculate the perimeter of shapes where the sides are not all in the same unit of measurement. I can use the properties of squares to calculate perimeter. I can use the properties of rectangles to calculate perimeter. I can calculate the length of an unknown side of a rectangle, given the perimeter and length of one side.	Lesson Pack
	Key/New Words Perimeter, calculate, properties, rectangle, square.	**Preparation** Differentiated Calculate Perimeter Activity Sheets – one per child Diving into Mastery Activity Sheets – as required

Prior Learning	It will be helpful if children can measure the perimeter of simple shapes, as covered in Measure Perimeter.

Learning Sequence

	Remember It: Children calculate the perimeter of rectangles and squares shown on the Lesson Presentation. They sort the shapes into those which have perimeters less than 16cm and those with a perimeter 16cm and greater.	
	Different Units: The Lesson Presentation demonstrates how to calculate the perimeter of shapes where the sides are not all written in the same unit of measurement. Children convert the measurements so that they are all in the same unit, before calculating the perimeter. Can the children calculate the perimeter of shapes where the sides are not all in the same unit of measurement?	
	Perimeter of Squares: Children use their knowledge of squares (all sides are equal) to calculate the perimeter. The Lesson Presentation demonstrates how to use repeated addition or multiplication to calculate the perimeter of squares. Can the children use the properties of squares to calculate perimeter?	
	Perimeter of Rectangles: Children use their knowledge of rectangles (opposite sides are equal) to calculate the perimeter. The Lesson Presentation demonstrates how to use addition and multiplication to calculate the perimeter of rectangles. Can the children use the properties of rectangles to calculate perimeter?	
	Missing Sides: The Lesson Presentation shows how to calculate the length of a side of a rectangle, where the length of one side and the perimeter is given. Can the children calculate the length of an unknown side of a rectangle, given the perimeter and length of one side?	
	Calculate Perimeter: Using the differentiated Calculate Perimeter Activity Sheets, children calculate the perimeter of squares and rectangles. To support children working towards expected level, children complete sentences to calculate the perimeter of squares and rectangles. Children working at the expected level follow examples to calculate the perimeter of squares and rectangles. They also calculate the length of the shorter side of a rectangle, given the length of the longer side and the perimeter. To challenge children working at greater depth, children use their own methods to calculate the perimeter of squares and rectangles. They also calculate the length of the shorter side of a rectangle, given the length of the longer side and the perimeter.	

Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative activity. These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Children practise their fluency skills in calculating the perimeter of squares and rectangles and working out the length of missing sides.

Children use their reasoning skills to show their understanding of how to calculate the perimeter of squares and rectangles.

Children solve open-ended questions about the perimeter of squares and rectangles. They identify shapes which fit a set of clues about perimeter.

Exploreit

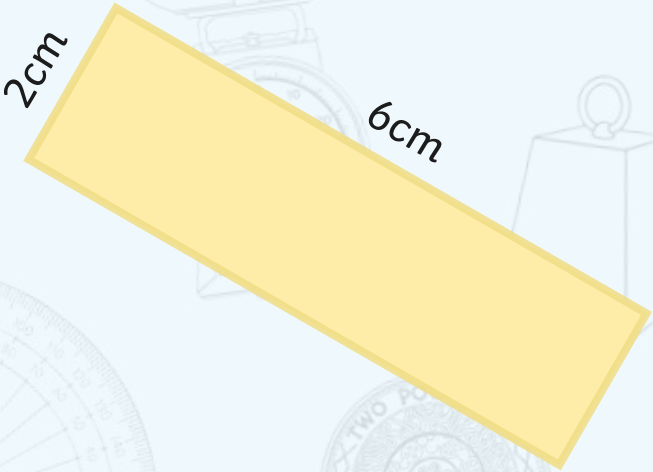
Drawit: Children draw squares and rectangles which have a perimeter of 36cm.

Learnit: Children will find this superb, visually exciting Knowledge Organiser a useful tool to support their understanding of length and perimeter.

Maths

Measurement

Calculate Perimeter



Aim

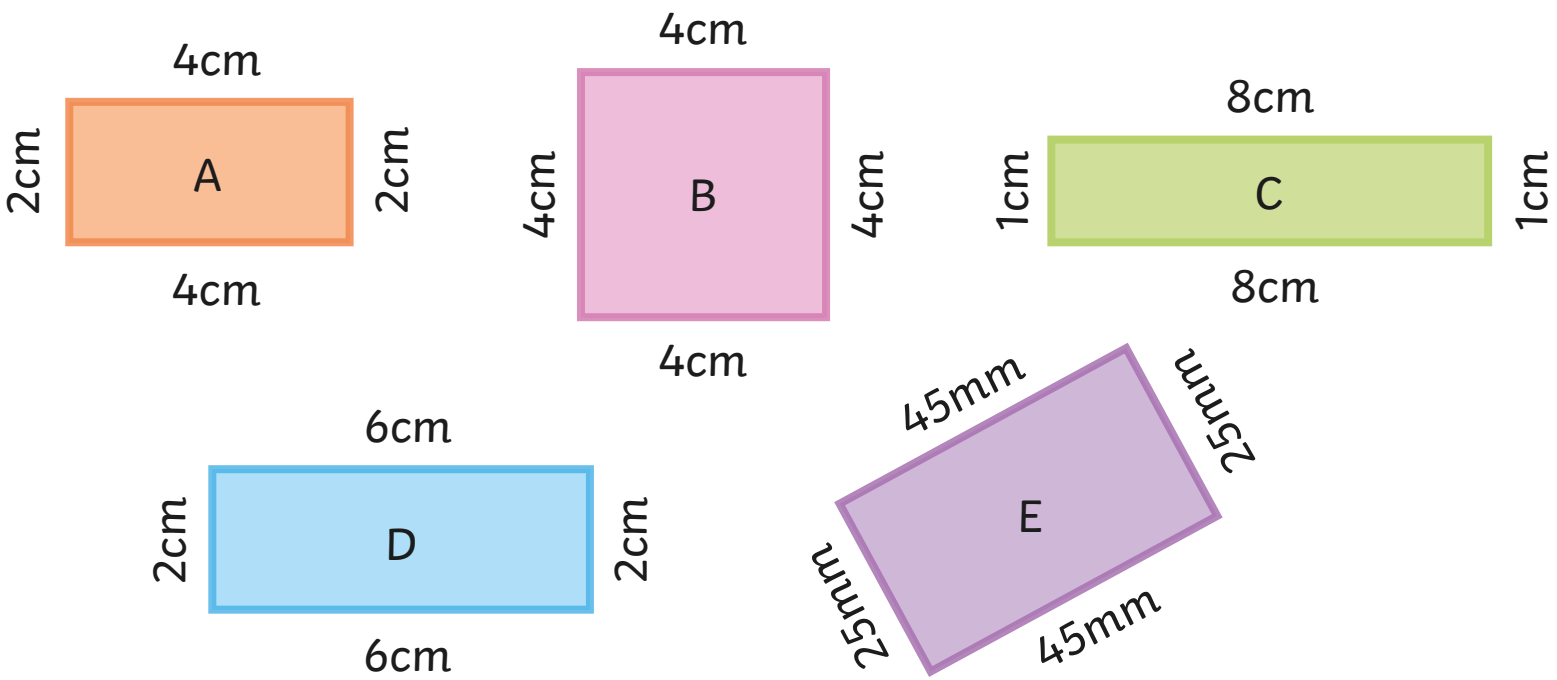
- To calculate the perimeter of simple shapes.

Success Criteria

- I can calculate the perimeter of shapes where the sides are not all in the same unit of measurement.
- I can use the properties of squares to calculate perimeter.
- I can use the properties of rectangles to calculate perimeter.
- I can calculate the length of an unknown side of a rectangle, given the perimeter and length of one side.

Remember It

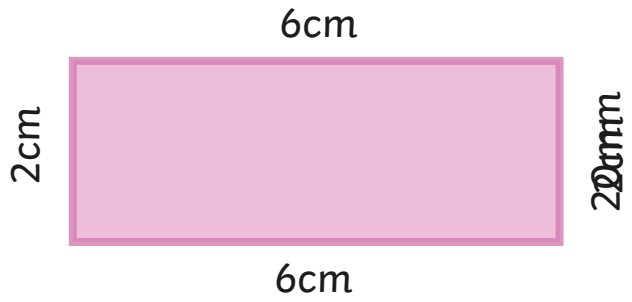
Sort these shapes by perimeter. Draw the table and write the letter of the shape in the correct column.



Perimeters Less than 16cm	Perimeters 16cm or Greater
A E	B C D

Different Units

How can we calculate the perimeter of this shape?



We need to ensure all the sides are measured in the same unit of measurement.

One side is recorded in millimetres. Because the other sides are in centimetres, we need to convert this side to centimetres.

20mm = 2cm.

Now add together the lengths of the sides to calculate the perimeter:

6cm + 2cm + 6cm + 2cm

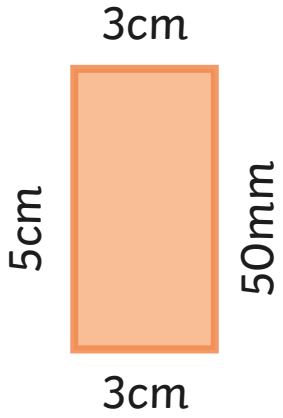
How are you going to add the measurements?

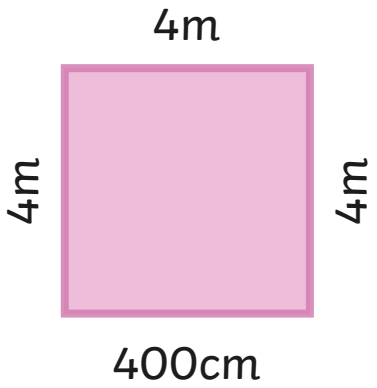
Here's one way:

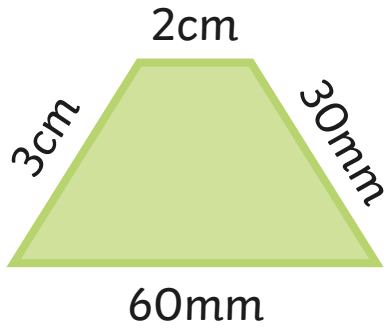
6cm + 2cm = 8cm
6cm + 2cm = 8cm
8cm + 8cm = 16cm

Different Units

Calculate the perimeter of these shapes.
Remember to make sure all sides are the same unit of measurement.





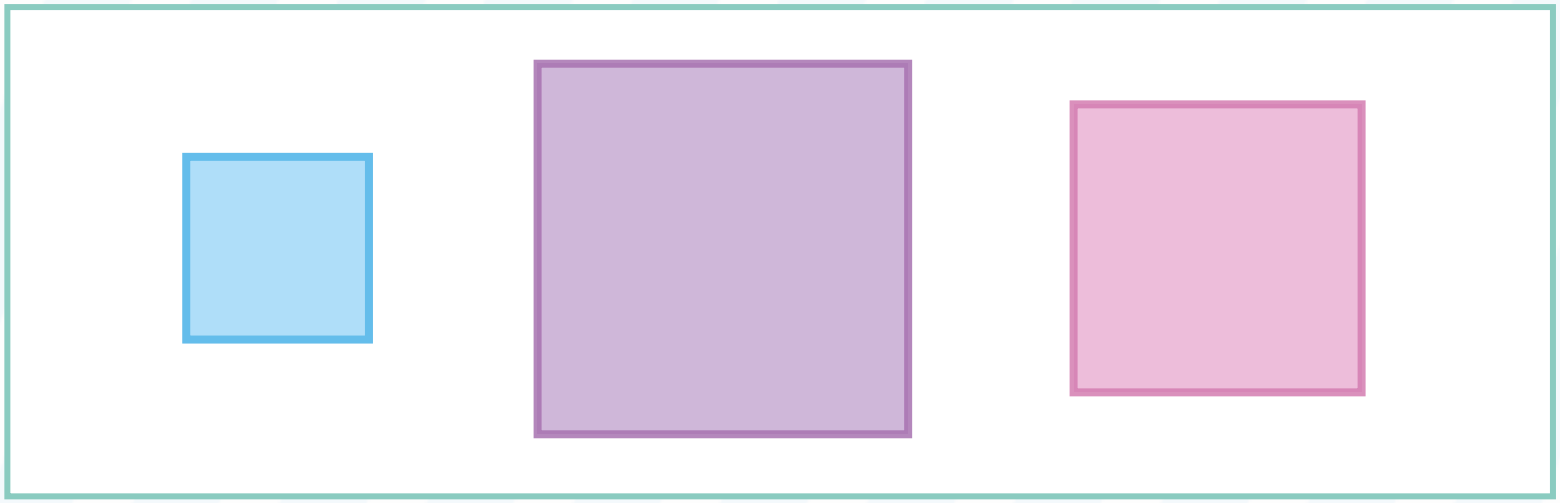


Perimeter =
16cm
or
160mm

Perimeter =
16m
or
1600cm

Perimeter =
14cm
or
140mm

Perimeter of Squares



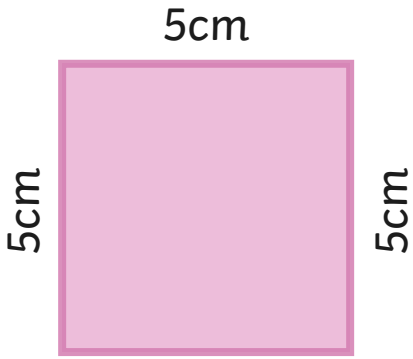
What do you know about all squares?

4 sides	Corners are right angles.	All sides are equal.

Which of these properties will help us when calculating the perimeter of squares?

All sides are equal.

Perimeter of Squares



Do we have enough information to calculate the area of this square?

Because all sides are equal,
we know that the sides not labelled are also 5cm.

So, the perimeter of this square = 5cm + 5cm + 5cm + 5cm = 20cm

How could we use multiplication?

There are 4 sides each measuring 5cm.

5cm × 4 = 20cm

Perimeter of Squares

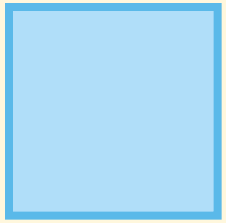
5cm

Perimeter =

5cm + 5cm + 5cm + 5cm = 20cm
or
5cm × 4 = 20cm

Calculate the area of these squares.
Write a repeated addition calculation and a multiplication calculation.

4cm



Perimeter =

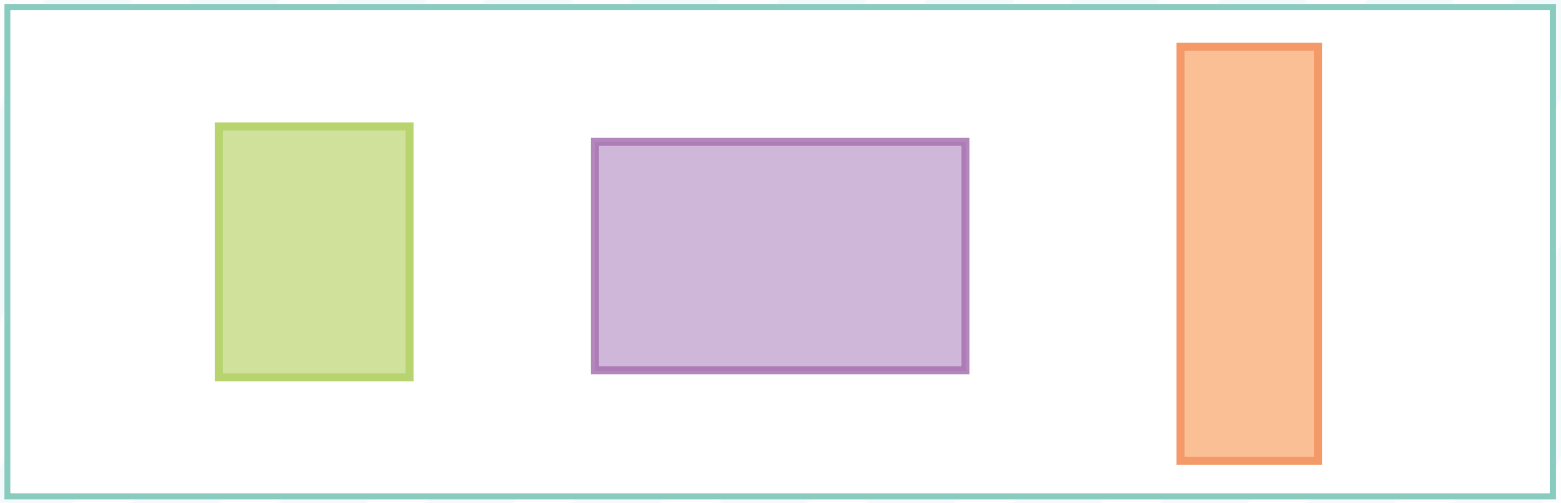
4cm + 4cm + 4cm + 4cm = 16cm
or
4cm × 4 = 16cm

2m

Perimeter =

2m + 2m + 2m + 2m = 8m
or
2m × 4 = 8m

Perimeter of Rectangles



What do you know about all rectangles?

4 sides

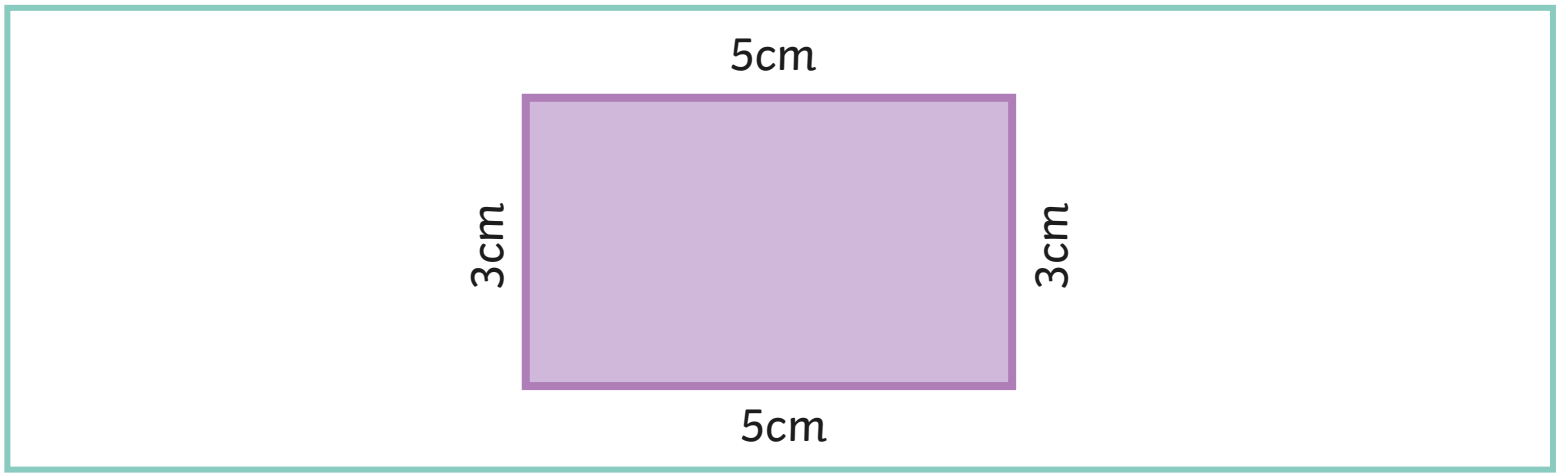
Corners are right angles.

Opposite sides are equal.

Which of these properties will help us when calculating the perimeter of rectangles?

Opposite sides are equal.

Perimeter of Rectangles



Do we have enough information to calculate the area of this rectangle?

Because opposite sides are equal,
we know the length of the unlabelled sides.

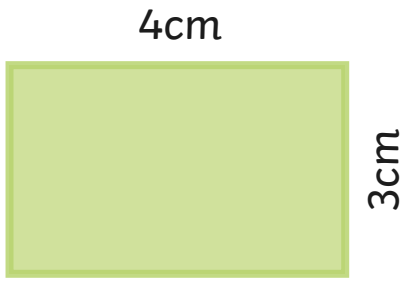
The long side is 5cm, so the opposite side is also 5cm.

The short side is 3cm, so the opposite side is also 3cm.

Now we have enough information to calculate the perimeter.

Perimeter of Rectangles

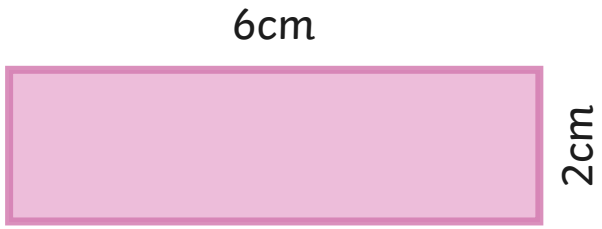
Add together the length of all sides to calculate the perimeter of these shapes:



Perimeter =

4cm + 3cm + 4cm + 3cm = 14cm

(You may have added the measurements in a different order)

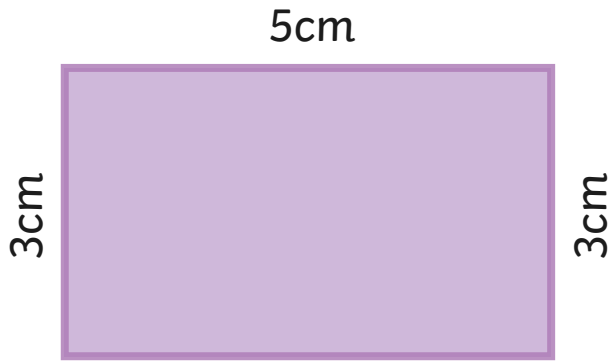


Perimeter =

6cm + 6cm + 2cm + 2cm = 16cm

(You may have added the measurements in a different order)

Perimeter of Rectangles



We could use multiplication to record the calculations.

We have two sides measuring 3cm and 2 sides measuring 5cm:

3cm × 2	+	5cm × 2	= 6cm + 10cm = 16cm

Another way would be to add together the longer side and the shorter side and multiply this by 2.

5cm + 3cm	× 2 = 8cm × 2 = 16cm

Perimeter of Rectangles

Add together the length of all sides to calculate the perimeter of these shapes:

Perimeter =

7cm × 2 + 3cm × 2 = 14cm + 6cm = 20cm

or

7cm + 3cm | × 2 = 20cm

Perimeter =

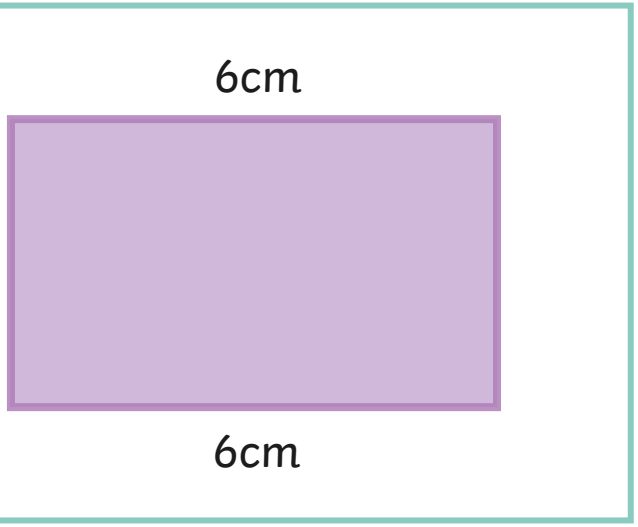
6cm × 2 + 1cm × 2 = 12cm + 2cm = 14cm

or

6cm + 1cm | × 2 = 14cm

Missing Sides

The perimeter of this shape is 20cm.
The longer side measures 6cm.
Do we have enough information to calculate the length of the shorter sides?



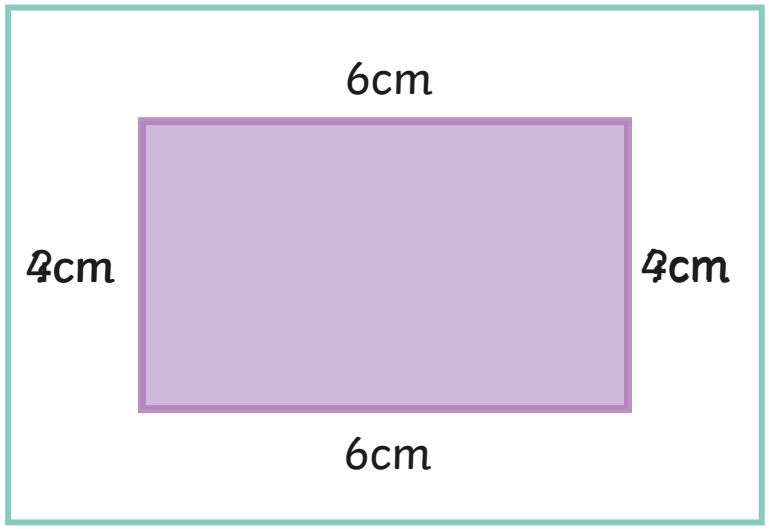
We can use a bar model to help us.

20			
6	6	?	?

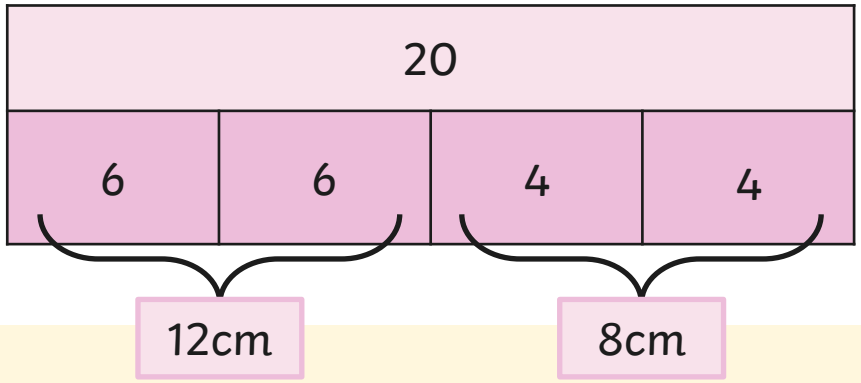
We know the longer side is 6cm, so the opposite side is also 6cm.

Missing Sides

The perimeter of this shape is 20cm.
The longer side measures 6cm.
Do we have enough information to calculate the length of the shorter sides?



We can use a bar model to help us.



20cm

As t
t

The shorter sides measure 4cm.

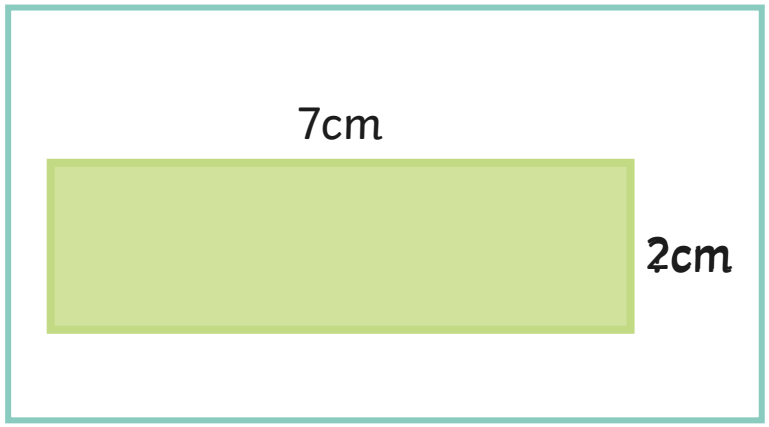
o do
?

ther.

6cm + 6cm + $\boxed{4}$ cm + $\boxed{4}$ cm = 20cm

Missing Sides

Calculate the length of the shorter side on this rectangle.



Perimeter = 18cm

18			
7	?	?	?

7cm + 7cm + 2 cm + 2 cm = 18cm

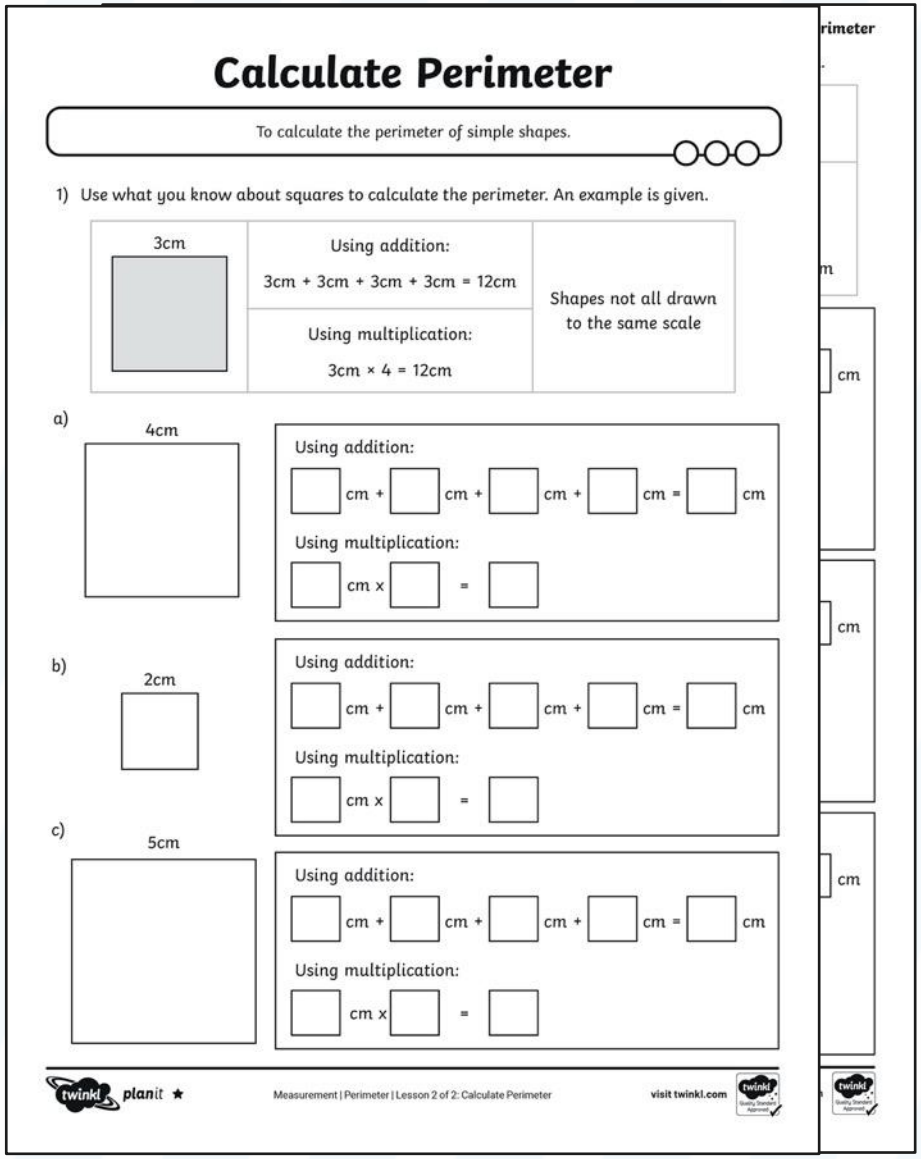
14cm

18cm - 14cm = 4cm

4cm ÷ 2 = 2cm

The shorter side measures 2cm.

Measure Perimeter



Calculate Perimeter

To calculate the perimeter of simple shapes.

1) Use what you know about squares to calculate the perimeter. An example is given.

3cm

Using addition:
3cm + 3cm + 3cm + 3cm = 12cm

Using multiplication:
3cm × 4 = 12cm

Shapes not all drawn to the same scale

a) 4cm

Using addition:
□ cm + □ cm + □ cm + □ cm = □ cm

Using multiplication:
□ cm x □ = □

b) 2cm

Using addition:
□ cm + □ cm + □ cm + □ cm = □ cm

Using multiplication:
□ cm x □ = □

c) 5cm

Using addition:
□ cm + □ cm + □ cm + □ cm = □ cm

Using multiplication:
□ cm x □ = □

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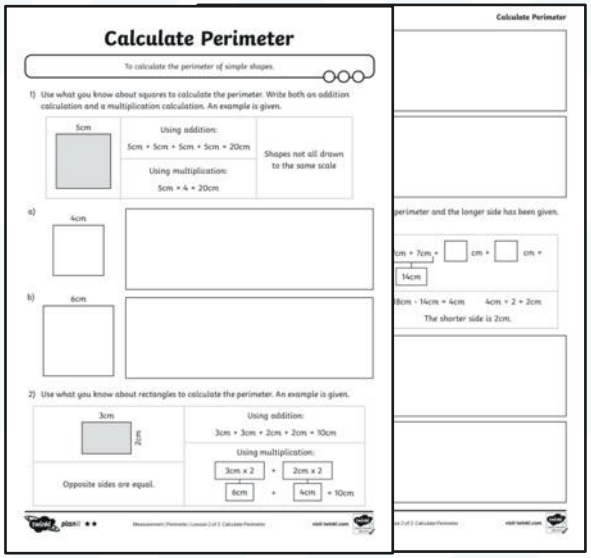


Calculate Perimeter

To calculate the perimeter of simple shapes.

1) Use what you know about squares to calculate the perimeter. Write both an addition calculation and a multiplication calculation. An example is given.

5cm

Using addition:
5cm + 5cm + 5cm + 5cm = 20cm

Using multiplication:
5cm × 4 = 20cm

Shapes not all drawn to the same scale

a) 4cm

b) 6cm

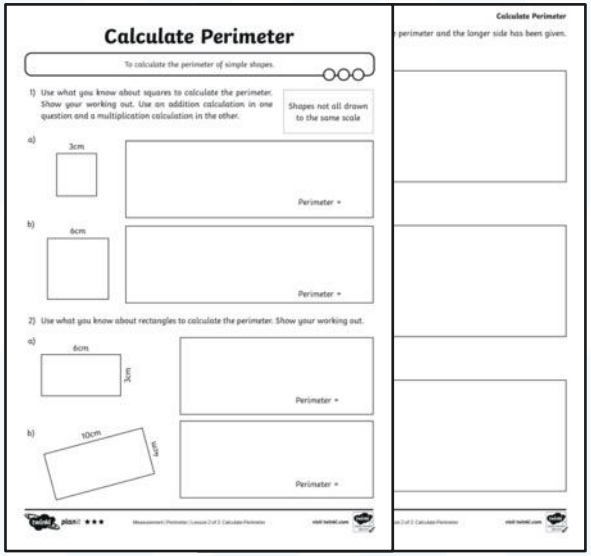
2) Use what you know about rectangles to calculate the perimeter. An example is given.

3cm, 2cm

Using addition:
3cm + 3cm + 2cm + 2cm = 10cm

Using multiplication:
3cm × 2 + 2cm × 2
6cm + 4cm = 10cm

Opposite sides are equal.



Calculate Perimeter

To calculate the perimeter of simple shapes.

1) Use what you know about squares to calculate the perimeter. Show your working out. Use an addition calculation in one question and a multiplication calculation in the other.

Shapes not all drawn to the same scale

a) 3cm

Perimeter =

b) 6cm

Perimeter =

2) Use what you know about rectangles to calculate the perimeter. Show your working out.

a) 6cm, 3cm

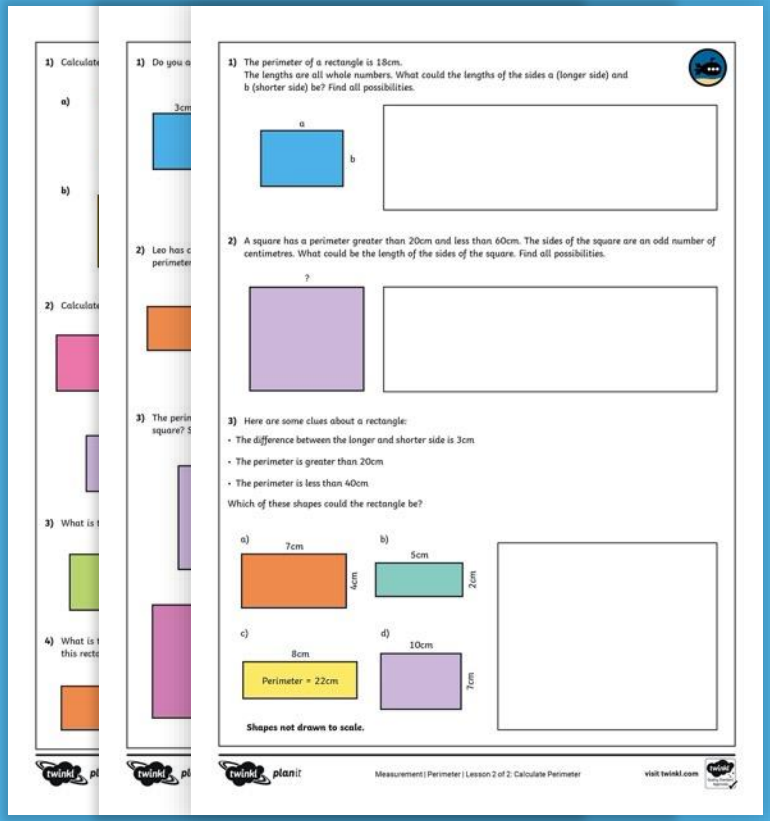
Perimeter =

b) 10cm, 4cm

Perimeter =

Diving into Mastery

Dive in by completing your own activity!

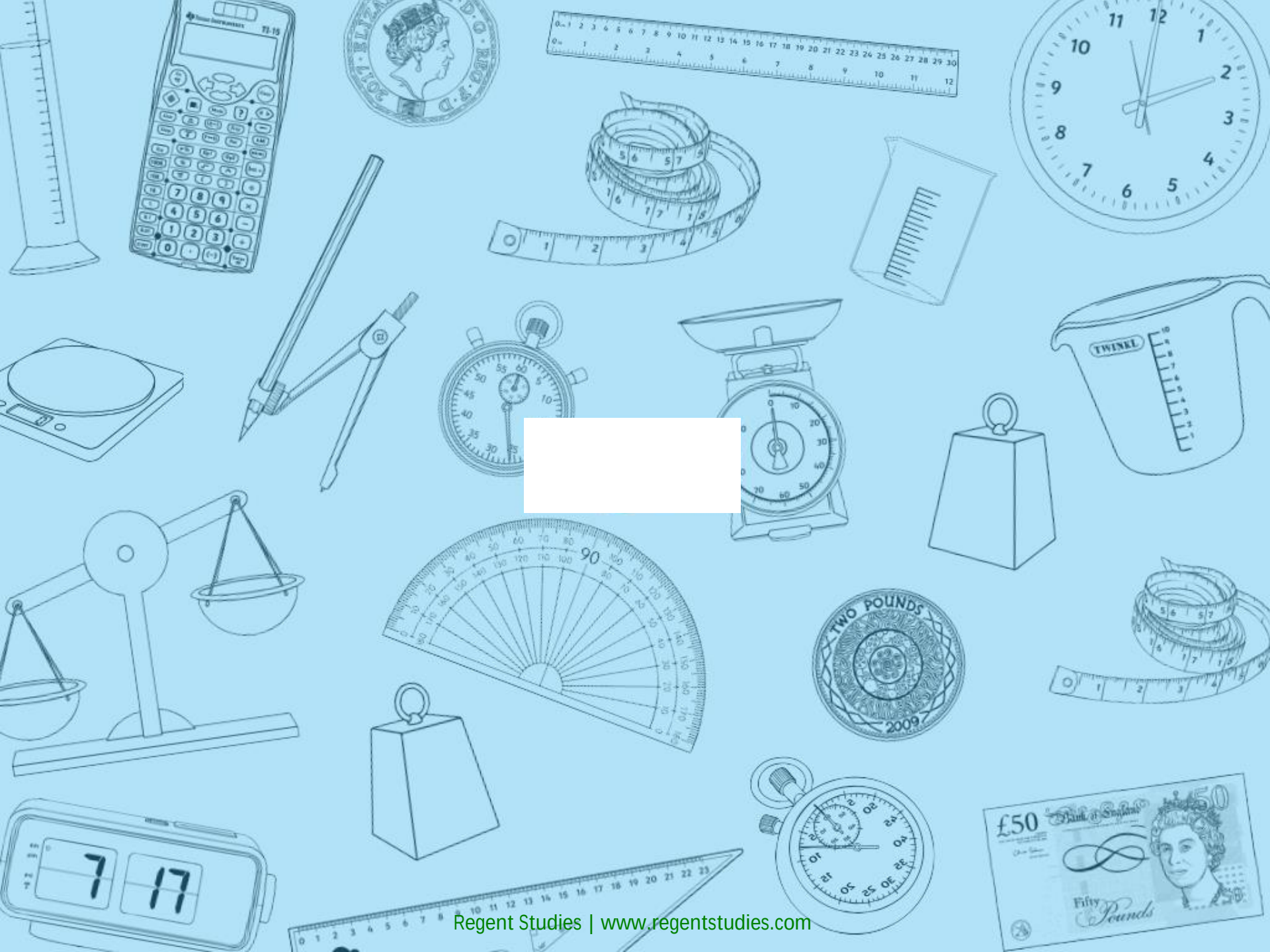


Aim

- To calculate the perimeter of simple shapes.

Success Criteria

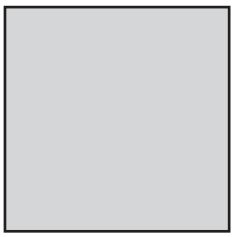
- I can calculate the perimeter of shapes where the sides are not all in the same unit of measurement.
- I can use the properties of squares to calculate perimeter.
- I can use the properties of rectangles to calculate perimeter.
- I can calculate the length of an unknown side of a rectangle, given the perimeter and length of one side.


TWINKL
TWO POUNDS
2009
£50
Fifty Pounds

Calculate Perimeter

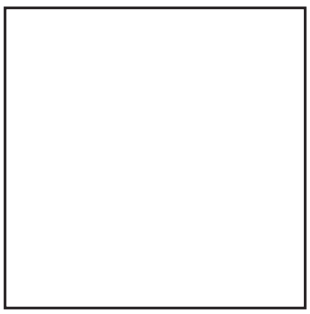
To calculate the perimeter of simple shapes.

1) Use what you know about squares to calculate the perimeter. An example is given.

3cm 	Using addition: 3cm + 3cm + 3cm + 3cm = 12cm Using multiplication: 3cm × 4 = 12cm	Shapes not all drawn to the same scale

a)

4cm



Using addition:

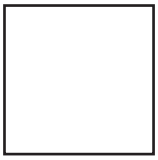
☐ cm + ☐ cm + ☐ cm + ☐ cm = ☐ cm

Using multiplication:

☐ cm x ☐ = ☐

b)

2cm



Using addition:

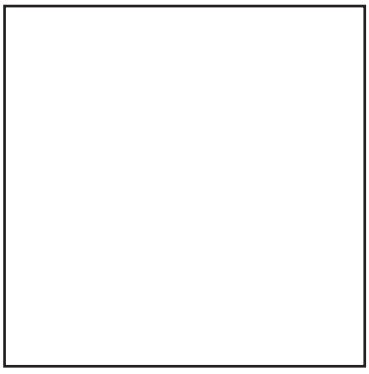
☐ cm + ☐ cm + ☐ cm + ☐ cm = ☐ cm

Using multiplication:

☐ cm x ☐ = ☐

c)

5cm



Using addition:

☐ cm + ☐ cm + ☐ cm + ☐ cm = ☐ cm

Using multiplication:

☐ cm x ☐ = ☐

2) Use what you know about rectangles to calculate the perimeter. An example is given.

Opposite sides are equal.

Using addition:

4cm + 4cm + 2cm + 2cm = 12cm

Using multiplication:

4cm x 2 + 2cm x 2

8cm + 4cm = 12cm

a)

Using addition:

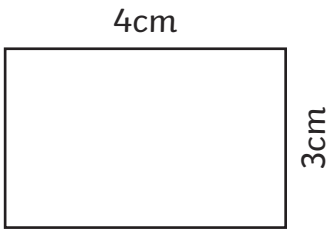
☐ cm + ☐ cm + ☐ cm + ☐ cm = ☐ cm

Using multiplication:

☐ cm x 2 + ☐ cm x 2

☐ cm + ☐ cm = ☐ cm

b)



Using addition:

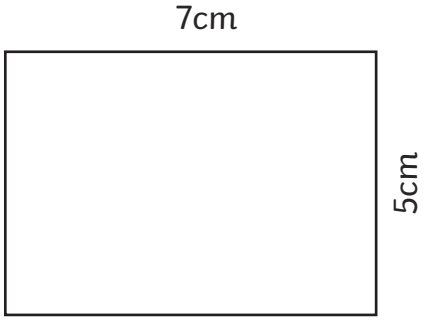
☐ cm + ☐ cm + ☐ cm + ☐ cm = ☐ cm

Using multiplication:

☐ cm x 2 + ☐ cm x 2

☐ cm + ☐ cm = ☐ cm

c)



Using addition:

☐ cm + ☐ cm + ☐ cm + ☐ cm = ☐ cm

Using multiplication:

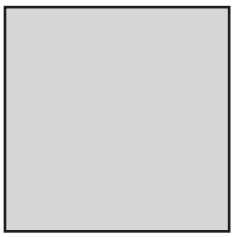
☐ cm x 2 + ☐ cm x 2

☐ cm + ☐ cm = ☐ cm

Calculate Perimeter

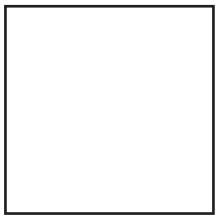
To calculate the perimeter of simple shapes.

1) Use what you know about squares to calculate the perimeter. Write both an addition calculation and a multiplication calculation. An example is given.

5cm 	Using addition: 5cm + 5cm + 5cm + 5cm = 20cm	Shapes not all drawn to the same scale
	Using multiplication: 5cm × 4 = 20cm	

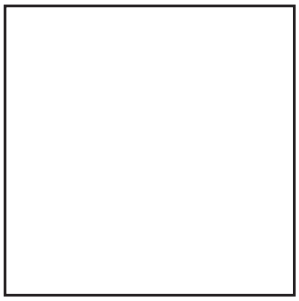
a)

4cm



b)

6m

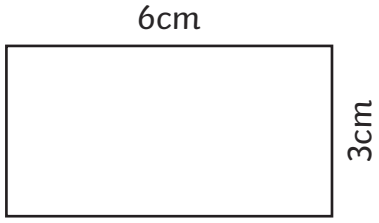


2) Use what you know about rectangles to calculate the perimeter. An example is given.

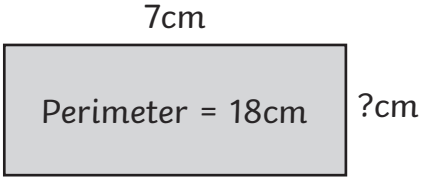
3cm 2cm	Using addition: 3cm + 3cm + 2cm + 2cm = 10cm
Opposite sides are equal.	Using multiplication: 3cm x 2 + 2cm x 2 6cm + 4cm = 10cm

a)

b)



3) Work out the length of the shorter side. The perimeter and the longer side has been given. An example is given.



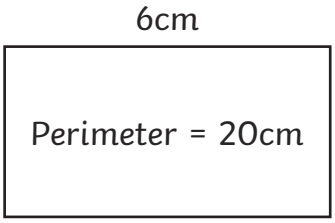
7cm + 7cm + ☐ cm + ☐ cm =

14cm

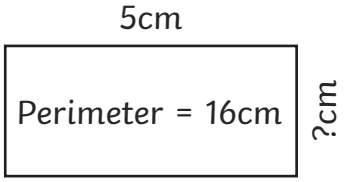
18cm - 14cm = 4cm 4cm ÷ 2 = 2cm

The shorter side is 2cm.

a)



b)



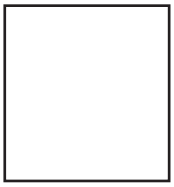
Calculate Perimeter

To calculate the perimeter of simple shapes.

1) Use what you know about squares to calculate the perimeter. Show your working out. Use an addition calculation in one question and a multiplication calculation in the other.

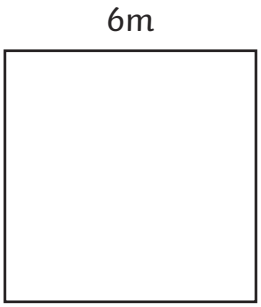
Shapes not all drawn to the same scale

a)



Perimeter =

b)



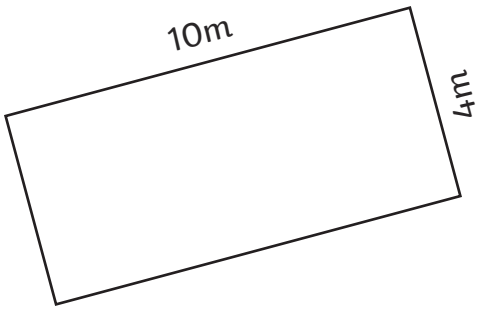
Perimeter =

2) Use what you know about rectangles to calculate the perimeter. Show your working out.

a)

Perimeter =

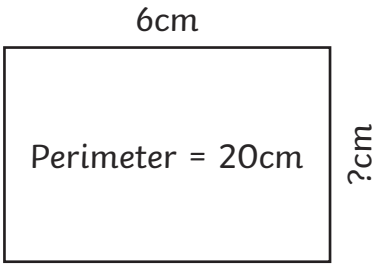
b)



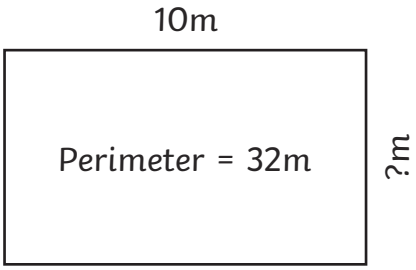
Perimeter =

3) Work out the length of the shorter side. The perimeter and the longer side has been given. Show your working out.

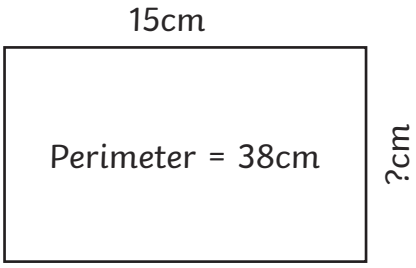
a)



b)



c)



Calculate Perimeter **Answers**

1)

a) Using addition:

4cm + 4cm + 4cm + 4cm = 16cm

Using multiplication:

4cm × 4 = 16cm

b) Using addition:

2m + 2m + 2m + 2m = 8m

Using multiplication:

2m × 4 = 8m

c) Using addition:

5cm + 5cm +5cm + 5cm = 20cm

Using multiplication:

5cm × 4 = 20cm

2)

a) Using addition:

3cm +3cm + 2cm + 2cm = 10cm

Using multiplication:

3cm x 2		2cm x 2
6cm	+	4cm = 10cm

b) Using addition:

4cm + 4cm + 3cm + 3cm = 14m

Using multiplication:

4cm x 2		3cm x 2
8cm	+	6cm = 14cm

c) Using addition:

7cm + 7cm +5cm + 5cm = 24cm

Using multiplication:

7cm x 2		5cm x 2
14cm	+	10cm = 24cm

Calculate Perimeter **Answers**

1)

a) **Using addition:**

4cm + 4cm + 4cm + 4cm = 16cm

Using multiplication:

4cm × 4 = 16cm

b) Using addition:

6m + 6m + 6m + 6m = 24m

Using multiplication:

6m × 4 = 24m

2)

a) **Using addition:**

5cm +5cm + 2cm + 2cm = 14cm

Using multiplication:

5cm x 2		2cm x 2
10cm	+	4cm = 14cm

b) Using addition:

6cm + 6cm + 3cm + 3cm = 18m

Using multiplication:

6cm x 2		3cm x 2
12cm	+	6cm = 18cm

3)

a) 6cm + 6cm + ? + ? = 20cm

12cm

20cm - 12cm = 8cm **8cm ÷ 2 = 4cm**

The shorter side is 4cm

b) 5cm + 5cm + ? + ? = 16cm

10cm

16cm - 10cm = 6cm **6cm ÷ 2 = 3cm**

The shorter side is 3cm

Calculate Perimeter **Answers**

1)

a) 12cm

b) 24m

2)

a) 18cm

b) 28m

3)

a) 4cm

b) 6m

c) 4cm

1) a) 12cm

b) 16m

2) a) 14cm

b) 14m

3) 5cm

4) 4cm

1) Jade is wrong. As we know that the sides of a square are equal, we only need to know the measurement of one side.

3cm × 4 = 12cm

2) Leo has added together the length and width of the rectangle. To calculate the correct answer he would need to add together 2 × length and 2 × width. Another way would be to add together the length and the width and multiply this by 2. The perimeter is 20cm.

3) Perimeter of rectangle =

10cm + 10cm + 8cm + 8cm = 36cm

Side of square - 36cm ÷ 4 = 9cm

1)

a	b
8cm	1cm
7cm	2cm
6cm	3cm
5cm	4cm

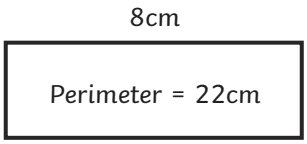
2) 5cm, 7cm, 9cm, 11cm and 13cm

3)

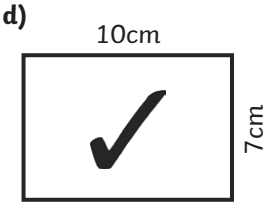
a)

b)

c)

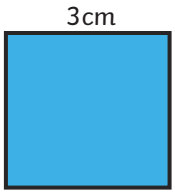


d)

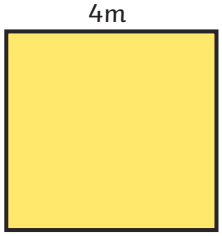


1) Calculate the perimeter of these squares:

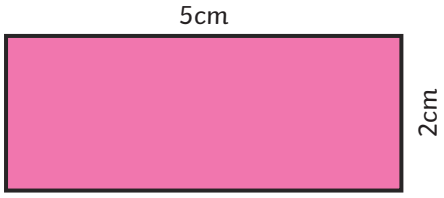
a)

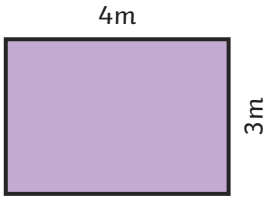


b)

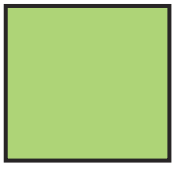


2) Calculate the perimeter of these rectangles:





3) What is the length of each side of this square?

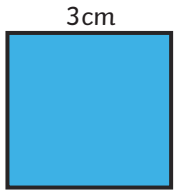


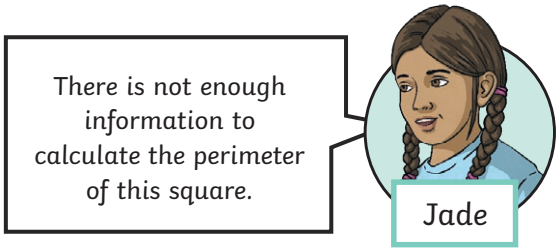
Perimeter = 20cm

4) What is the length of the shorter sides of this rectangle?

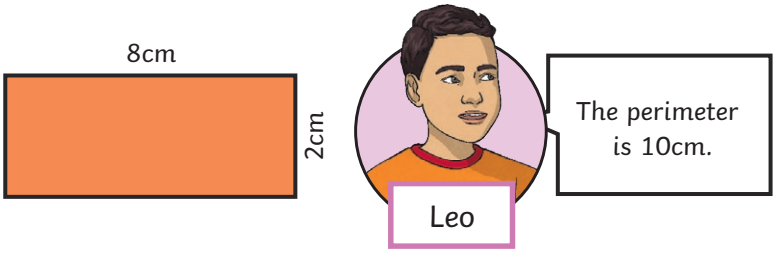
Perimeter = 28cm

1) Do you agree with Jade? Explain your answer.

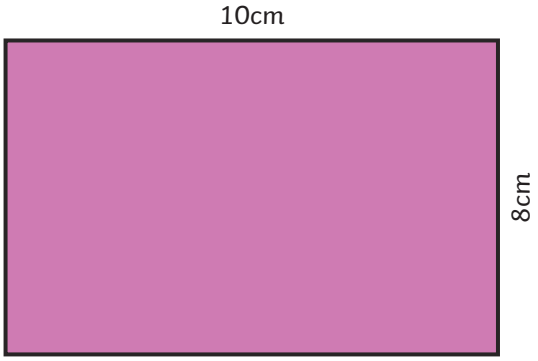




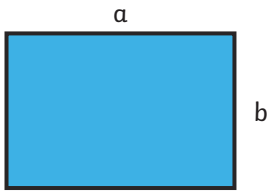
2) Leo has calculated the perimeter of this shape. Explain the mistake he has made and how he should calculate the perimeter.



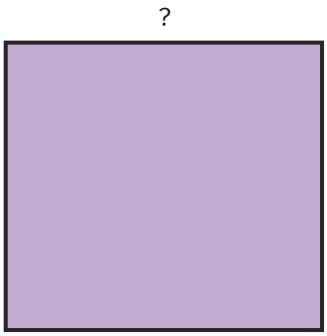
3) The perimeter of the square is the same as the perimeter of the rectangle. What is the length of the sides of the square? Show how you worked out the answer.



1) The perimeter of a rectangle is 18cm.
The lengths are all whole numbers. What could the lengths of the sides a (longer side) and b (shorter side) be? Find all possibilities.



2) A square has a perimeter greater than 18cm and less than 60cm. The sides of the square are an odd number of centimetres. What could be the length of the sides of the square. Find all possibilities.



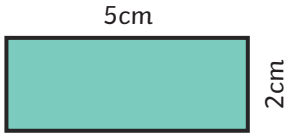
3) Here are some clues about a rectangle:

- The difference between the longer and shorter side is 3cm
- The perimeter is greater than 20cm
- The perimeter is less than 40cm

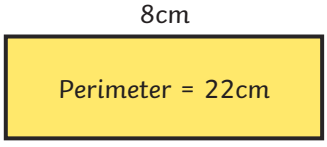
Which of these shapes could the rectangle be?

a)

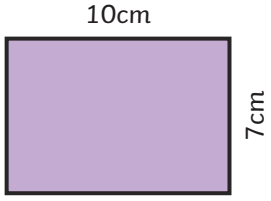
b)



c)



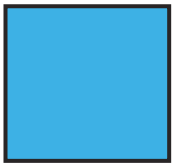
d)



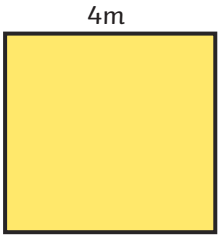
Shapes not drawn to scale.

1) Calculate the perimeter of these squares:

a)

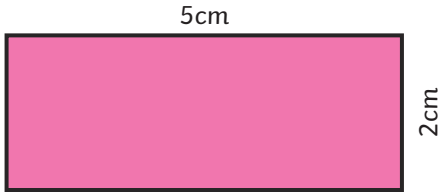


b)

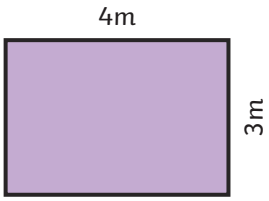


2) Calculate the perimeter of these rectangles:

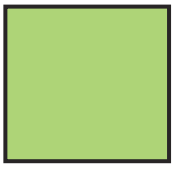
a)



b)



3) What is the length of each side of this square?



Perimeter = 20cm

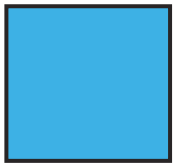
4) What is the length of the shorter sides of this rectangle?

10cm

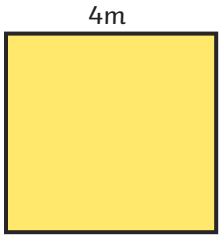
Perimeter = 28cm

1) Calculate the perimeter of these squares:

a)

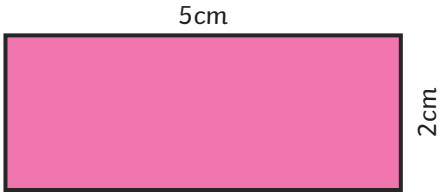


b)

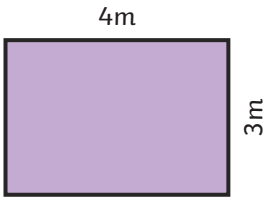


2) Calculate the perimeter of these rectangles:

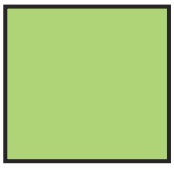
a)



b)



3) What is the length of each side of this square?



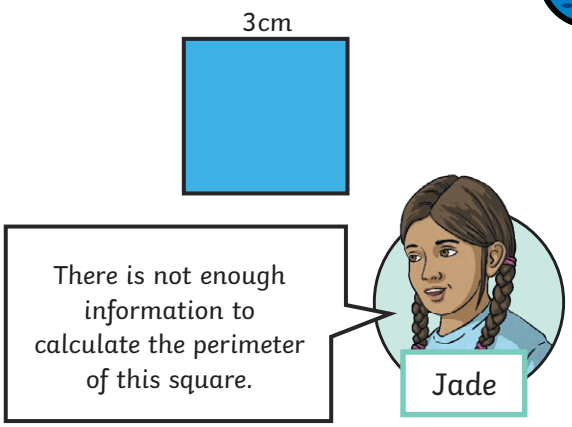
Perimeter = 20cm

4) What is the length of the shorter sides of this rectangle?

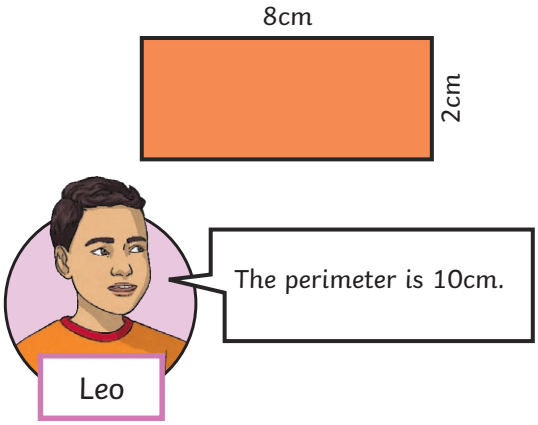
10cm

Perimeter = 28cm

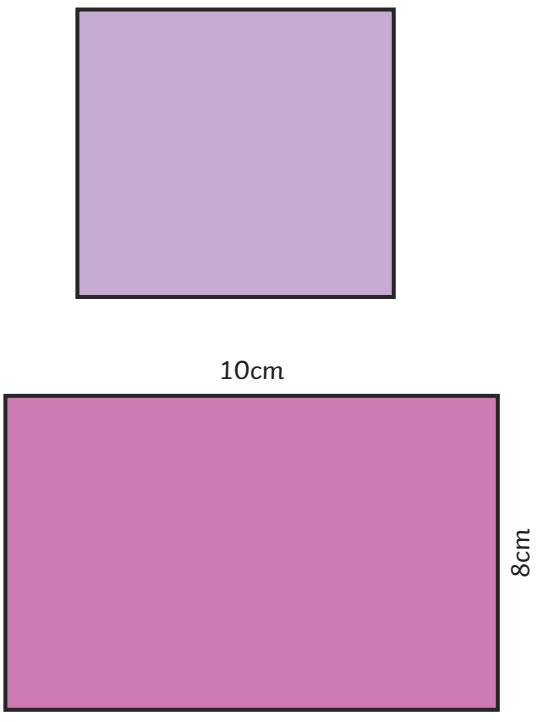
1) Do you agree with Jade? Explain your answer.



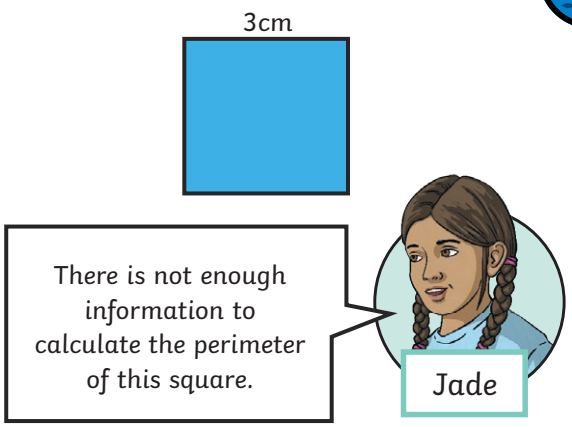
2) Leo has calculated the perimeter of this shape. Explain the mistake he has made and how he should calculate the perimeter.



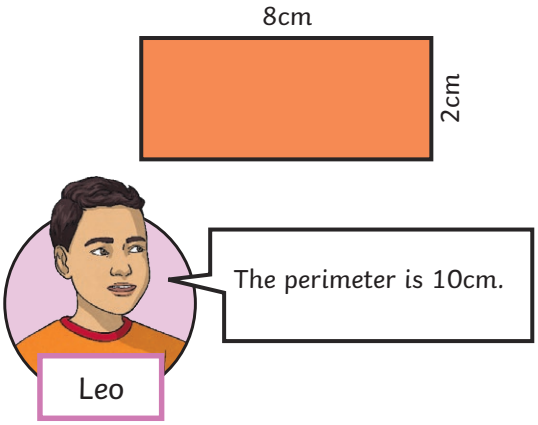
3) The perimeter of the square is the same as the perimeter of the rectangle. What is the length of the sides of the square? Show how you worked out the answer.



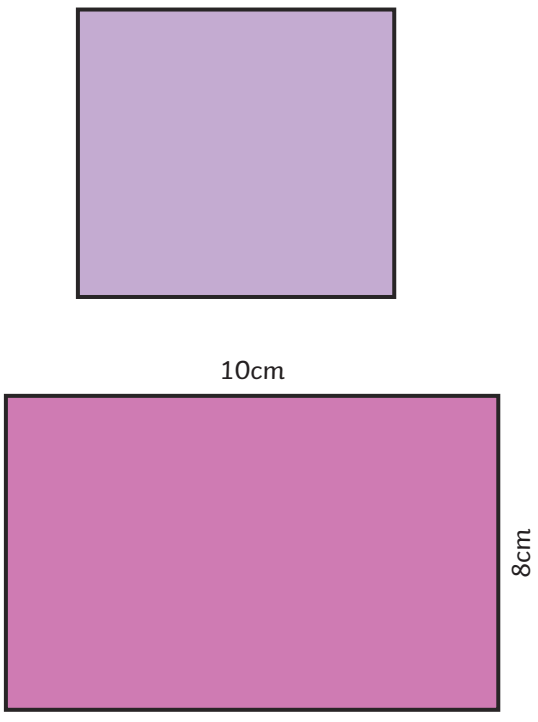
1) Do you agree with Jade? Explain your answer.



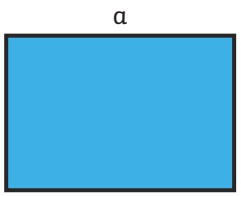
2) Leo has calculated the perimeter of this shape. Explain the mistake he has made and how he should calculate the perimeter.



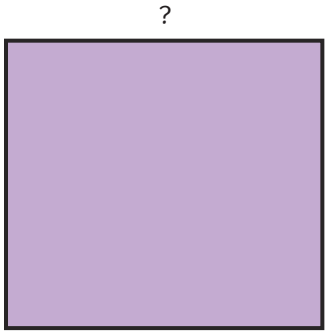
3) The perimeter of the square is the same as the perimeter of the rectangle. What is the length of the sides of the square? Show how you worked out the answer.



1) The perimeter of a rectangle is 18cm. The lengths are all whole numbers. What could the lengths of the sides a (longer side) and b (shorter side) be? Find all possibilities.



2) A square has a perimeter greater than 18cm and less than 60cm. The sides of the square are an odd number of centimetres. What could be the length of the sides of the square. Find all possibilities.



3) Here are some clues about a rectangle:

- The difference between the longer and shorter side is 3cm
- The perimeter is greater than 20cm
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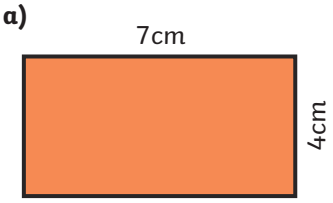
Which of these shapes could the rectangle be?

a)



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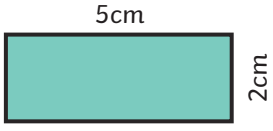

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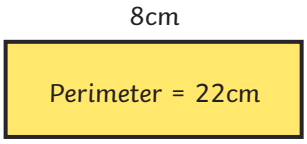

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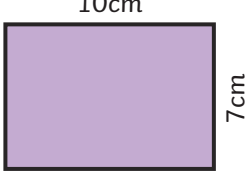
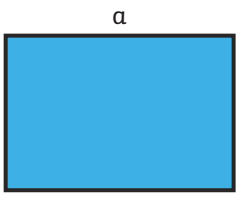


Shapes not drawn to scale.

1) The perimeter of a rectangle is 18cm. The lengths are all whole numbers. What could the lengths of the sides a (longer side) and b (shorter side) be? Find all possibilities.



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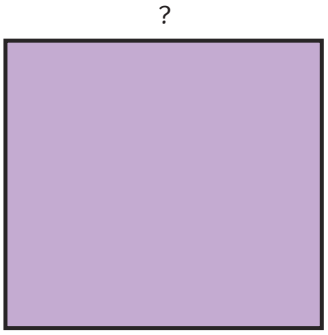

3) Here are some clues about a rectangle:

- The difference between the longer and shorter side is 3cm
- The perimeter is greater than 20cm
- The perimeter is less than 40cm

Which of these shapes could the rectangle be?

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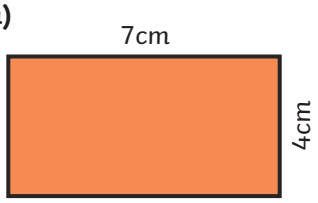

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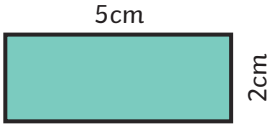

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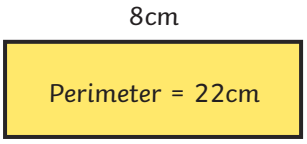

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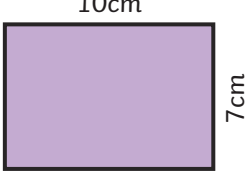


1) a) 12cm

b) 16m

2) a) 14cm

b) 14m

3) 5cm

4) 4cm

1) Jade is wrong. As we know that the sides of a square are equal, we only need to know the measurement of one side.

3cm × 4 = 12cm

2) Leo has added together the length and width of the rectangle. To calculate the correct answer he would need to add together 2 × length and 2 × width. Another way would be to add together the length and the width and multiply this by 2. The perimeter is 20cm.

3) Perimeter of rectangle =

10cm + 10cm + 8cm + 8cm = 36cm

Side of square - 36cm ÷ 4 = 9cm

1)

a	b
8cm	1cm
7cm	2cm
6cm	3cm
5cm	4cm

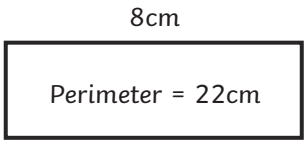
2) 5cm, 7cm, 9cm, 11cm and 13cm

3)

a)

b)

c)



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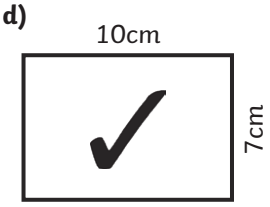
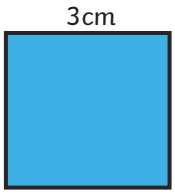


1) Calculate the perimeter of these squares:

a)



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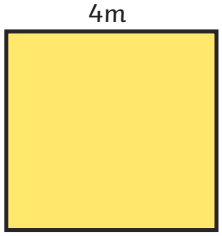
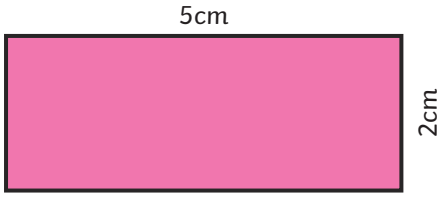
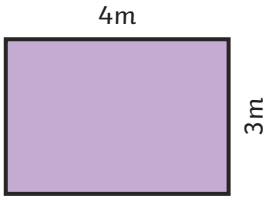
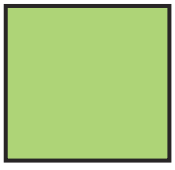


2) Calculate the perimeter of these rectangles:





3) What is the length of each side of this square?

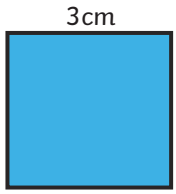


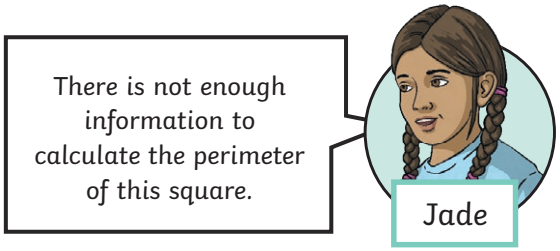
Perimeter = 20cm

4) What is the length of the shorter sides of this rectangle?

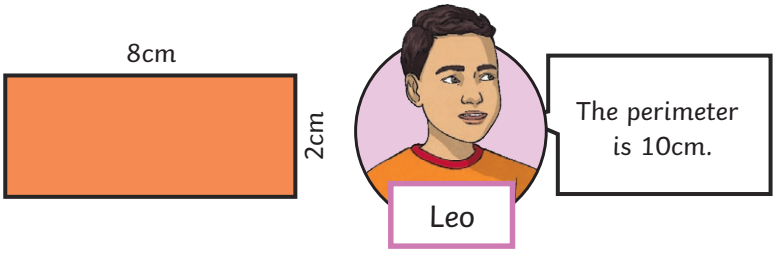
Perimeter = 28cm

1) Do you agree with Jade? Explain your answer.

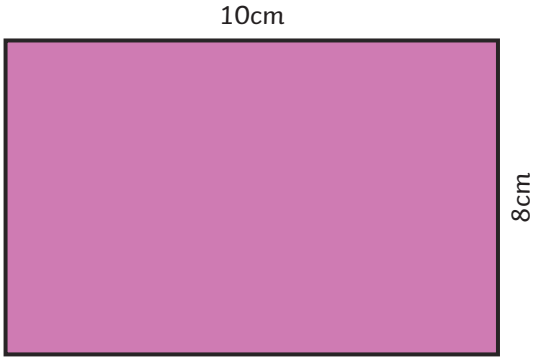




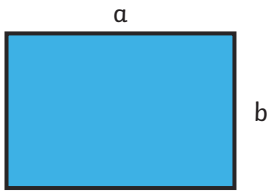
2) Leo has calculated the perimeter of this shape. Explain the mistake he has made and how he should calculate the perimeter.



3) The perimeter of the square is the same as the perimeter of the rectangle. What is the length of the sides of the square? Show how you worked out the answer.



1) The perimeter of a rectangle is 18cm.
The lengths are all whole numbers. What could the lengths of the sides a (longer side) and b (shorter side) be? Find all possibilities.



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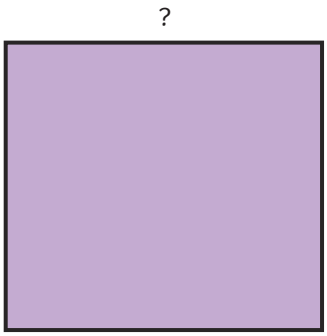

3) Here are some clues about a rectangle:

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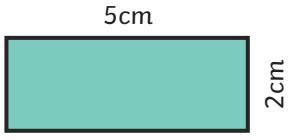
Which of these shapes could the rectangle be?

a)

b)



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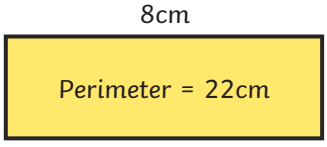

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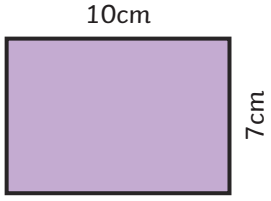

Shapes not drawn to scale.

1) Calculate the perimeter of these squares:

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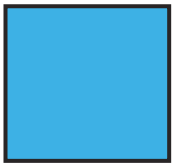

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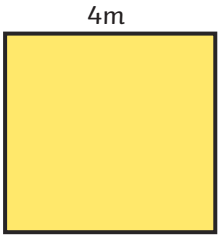

2) Calculate the perimeter of these rectangles:

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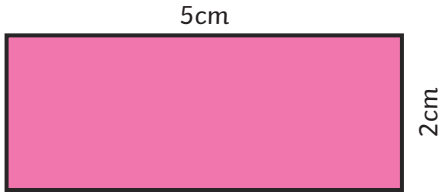

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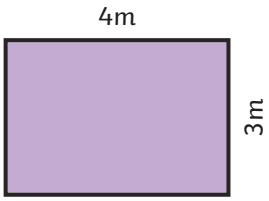

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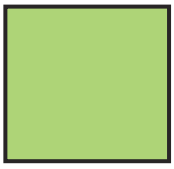

Perimeter = 20cm

4) What is the length of the shorter sides of this rectangle?

10cm

Perimeter = 28cm

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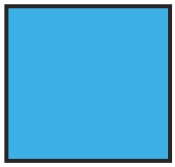

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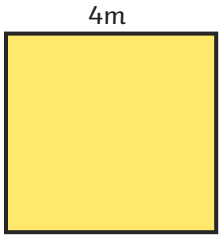

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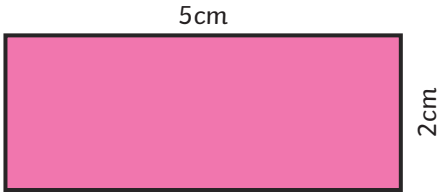

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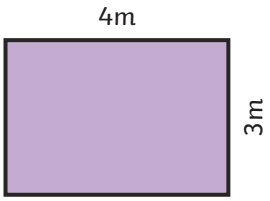

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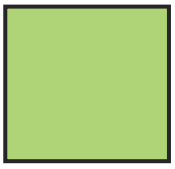

Perimeter = 20cm

4) What is the length of the shorter sides of this rectangle?

10cm

Perimeter = 28cm

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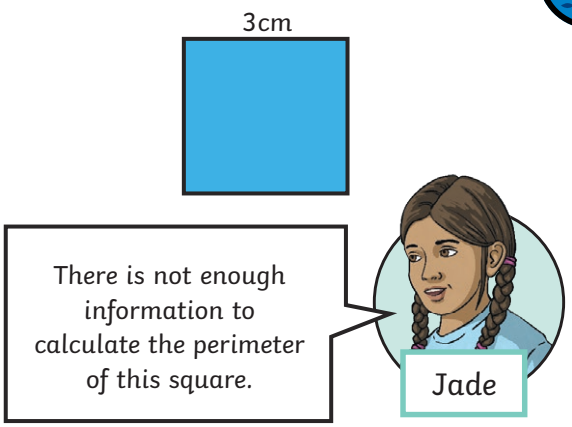

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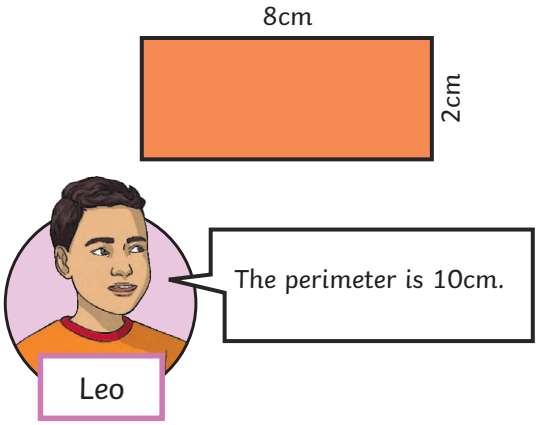

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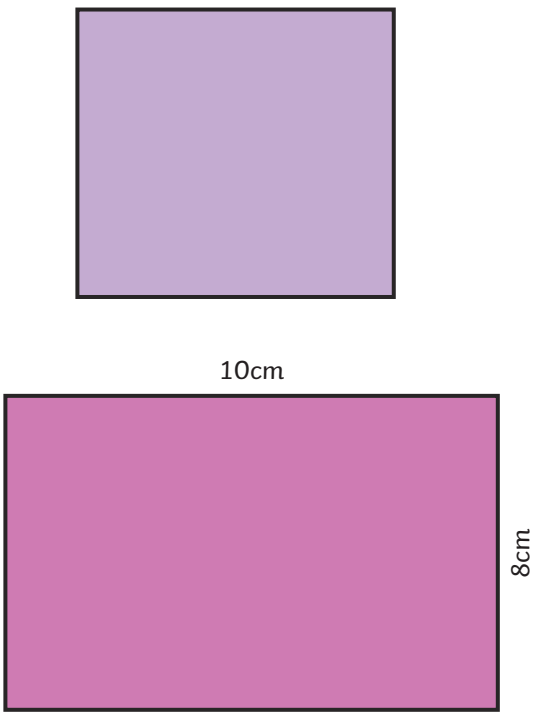

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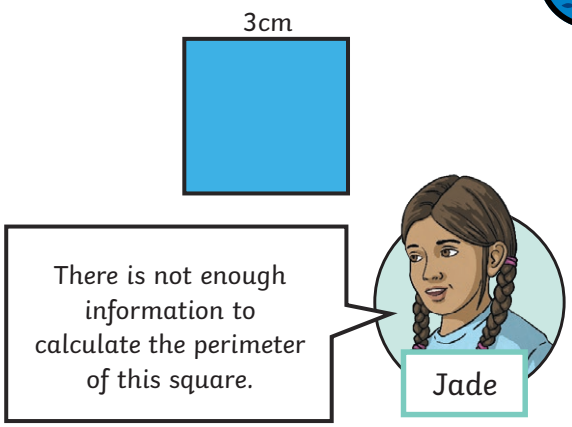

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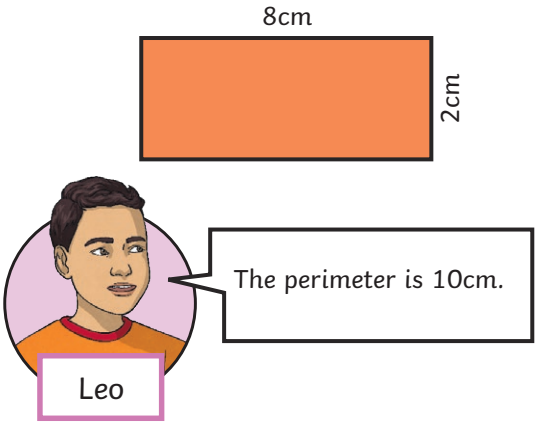

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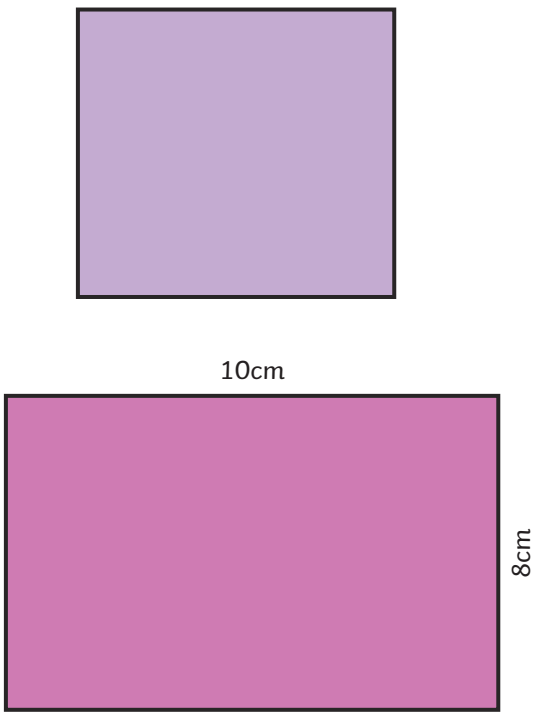

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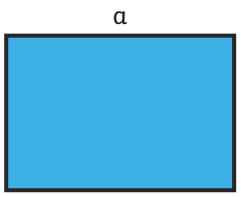

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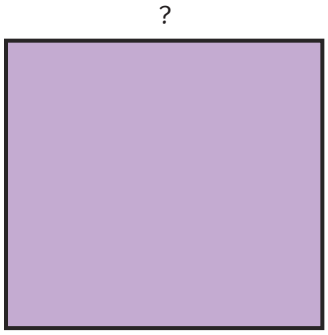

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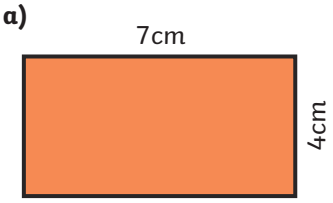
a)



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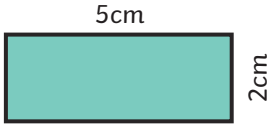

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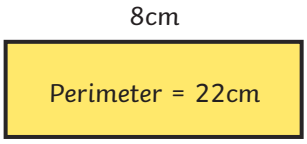

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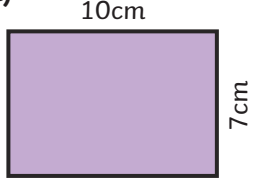
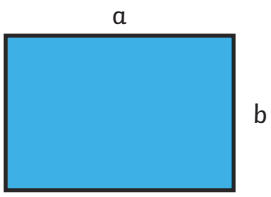
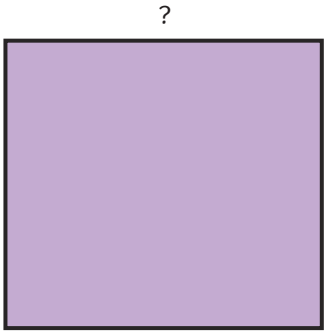


Shapes not drawn to scale.

1) The perimeter of a rectangle is 18cm. The lengths are all whole numbers. What could the lengths of the sides a (longer side) and b (shorter side) be? Find all possibilities.



2) A square has a perimeter greater than 18cm and less than 60cm. The sides of the square are an odd number of centimetres. What could be the length of the sides of the square. Find all possibilities.

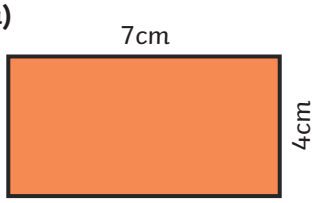


3) Here are some clues about a rectangle:

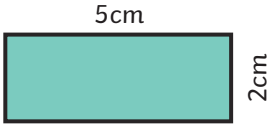
- The difference between the longer and shorter side is 3cm
- The perimeter is greater than 20cm
- The perimeter is less than 40cm

Which of these shapes could the rectangle be?

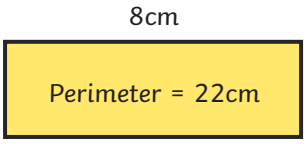
a)



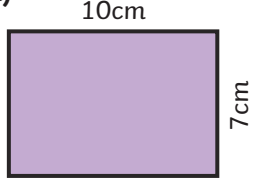
b)



c)



d)



Shapes not drawn to scale.

Measurement | Calculate Perimeter

To calculate the perimeter of simple shapes.		
I can calculate the perimeter of shapes where the sides are not all in the same unit of measurement.		
I can use the properties of squares to calculate perimeter.		
I can use the properties of rectangles to calculate perimeter.		
I can calculate the length of an unknown side of a rectangle, given the perimeter and length of one side.		

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