Add lengths

1 Scott builds a bridge using planks.

120 cm   75 cm
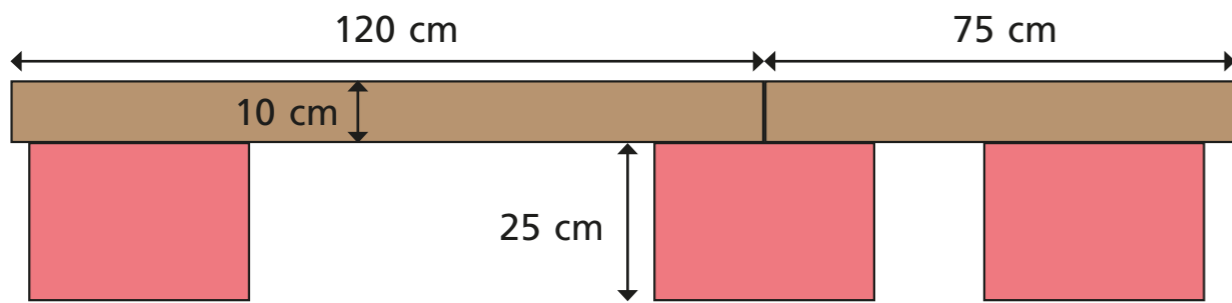
10 cm

25 cm

a) What is the total length of his bridge? ☐ cm

b) What is the height of his bridge? ☐ cm

2 Complete the additions.

a) 25 cm + 75 cm = ☐ m

b) 10 cm + 50 mm = ☐ cm

c) 1 m 20 cm + ☐ cm = 2 m

d) 52 mm + ☐ mm = 6 cm

3 Brett is 115 cm tall.

His brother is 20 cm taller.

How tall is Brett's brother?

Write your answer in metres and centimetres.

☐ m and ☐ cm

4 Dora builds a tower that measures 1 m and 5 cm.

Annie builds a tower that measures 80 cm.

Dexter builds a tower that measures 95 cm.

They put their towers together to make one high tower.

How tall is their new tower?

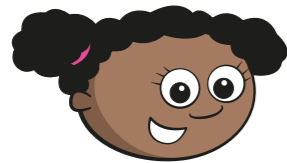The new tower is ☐ cm tall.

This is the same as ☐ m and ☐ cm.

5 Red bricks are 50 mm long.

Blue bricks are 80 mm long.

50 mm   80 mm
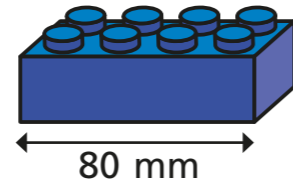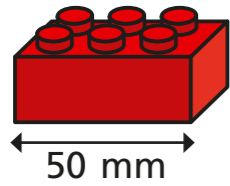
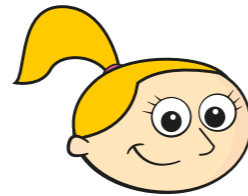**a)** Whitney and Eva make patterns using the bricks.

How long is each pattern?

Give your answers in centimetres.

Whitney   Eva

Whitney's pattern is ☐ cm long.

Eva's pattern is ☐ cm long.

b) Draw some red and blue bricks to make a pattern that would be exactly 36 cm long.

6 Jack, Tommy and Alex took part in a hop, skip and jump competition.
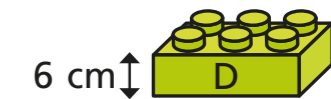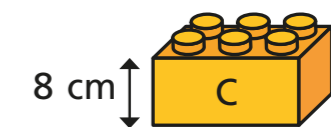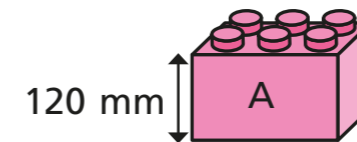
Their distances are shown in the table below.

Complete the table to show the total distance each child travelled.

Name	Hop	Skip	Jump	Total
Jack	80 cm	60 cm	1 m 20 cm	
Tommy	70 cm	1 m	1 m 10 cm	
Alex	75 cm	75 cm	1 m	

7 Esther builds a tower using some bricks.

Her tower is 24 cm tall.

Which bricks could she have used?

120 mm A   8 cm C
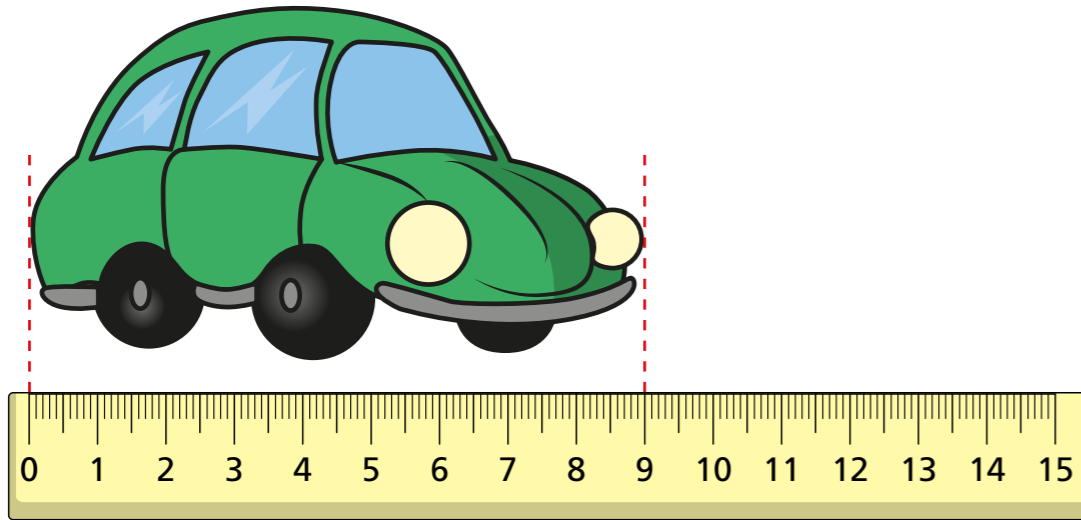
40 mm B   6 cm D

How many different answers can you find?
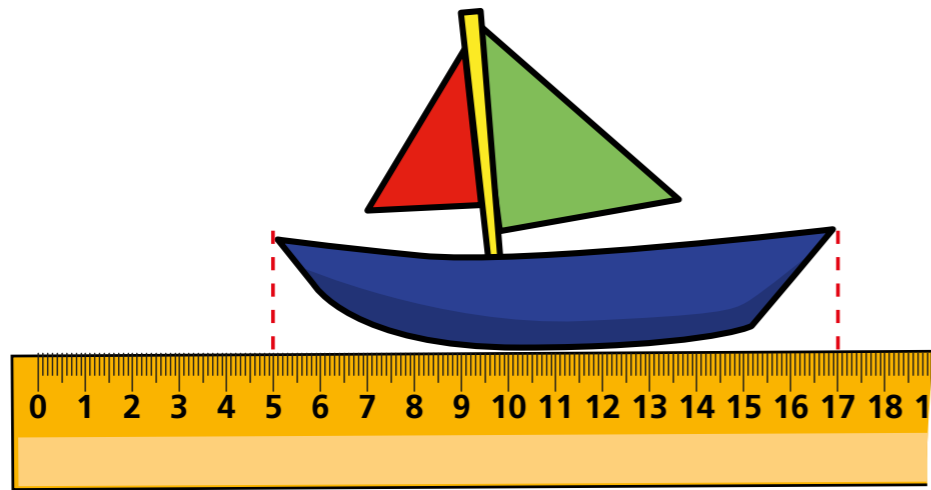
Subtract lengths

1 Complete the sentences to describe the lengths of the objects.

a)

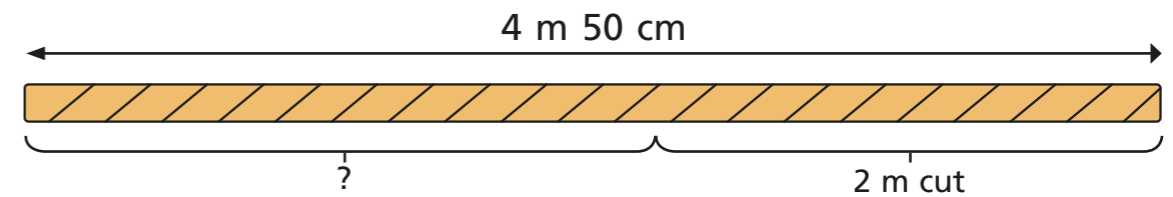The toy car is [ ] mm long.

b)

The toy boat is [ ] cm long.
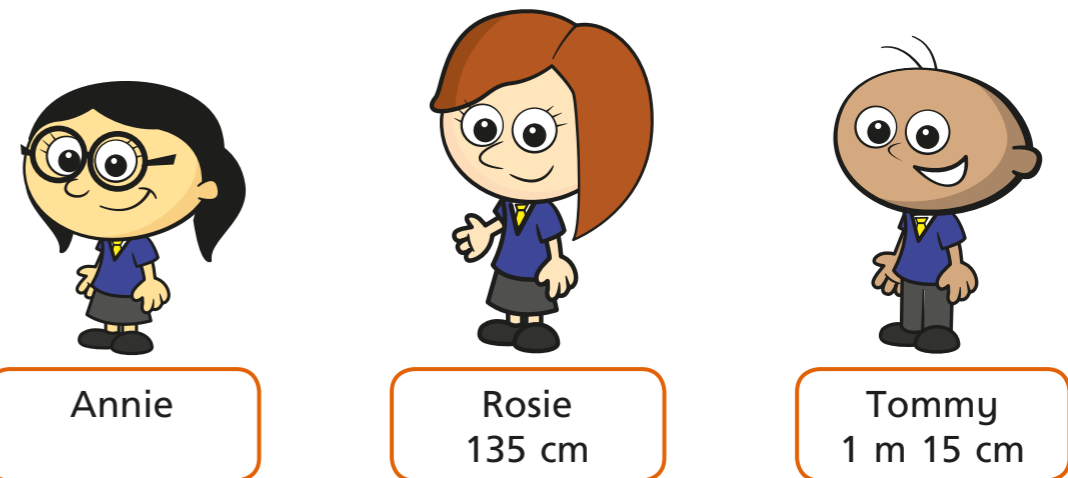
c) The toy boat is [ ] cm longer than the toy car.

The toy car is [ ] mm shorter than the toy boat.

2 Jack's rope is 4 m 50 cm long.

He uses 2 m to make a swing.

How long is his rope now?

4 m 50 cm

? | 2 m cut

Jack's rope is now [ ] m and [ ] cm long.

3 Tommy, Rosie and Annie each measure their height.

Annie | Rosie 135 cm | Tommy 1 m 15 cm

a) What is the difference in height between Tommy and Rosie?

[ ]

b) Annie is 30 mm shorter than Rosie. What is Annie's height?

[ ]

4 Nijah buys 5 m of ribbon.

She uses 78 cm of the ribbon to decorate a bag.

How much ribbon does she have left?
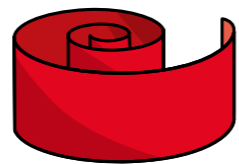
[ ] m and [ ] cm

5 Complete the number sentences.

a) 2 m – 50 cm = [ ] cm

b) 85 mm – 2 cm = [ ] mm

c) 9 cm 5 mm – 20 mm = [ ] cm and [ ] mm

d) 100 mm – [ ] cm = 6 cm

6 Huan has a 10 m ball of string.

He uses 50 cm to replace his shoelace.

He uses some more of his string to make a bow for his arrows.

He has 7 m and 45 cm of string left.

How much string did Huan use to make his bow?

[ ] m and [ ] cm

7 Fill in the empty boxes so that each row and column adds up to 2 m.

50 cm		50 cm
1 m 15 cm		
	85 cm	

Talk about what you did with a partner.

Are your answers the same?

Create your own problem like this using a different total.

Ask a partner to find the answer.

Measure perimeter

1 Here are two rectangles.

A

B
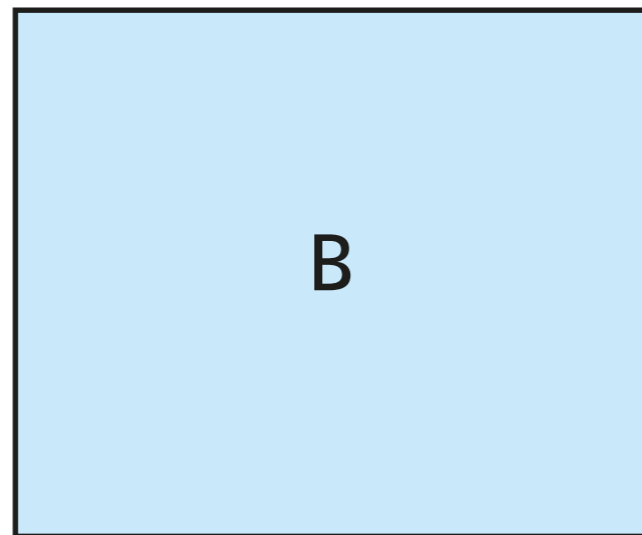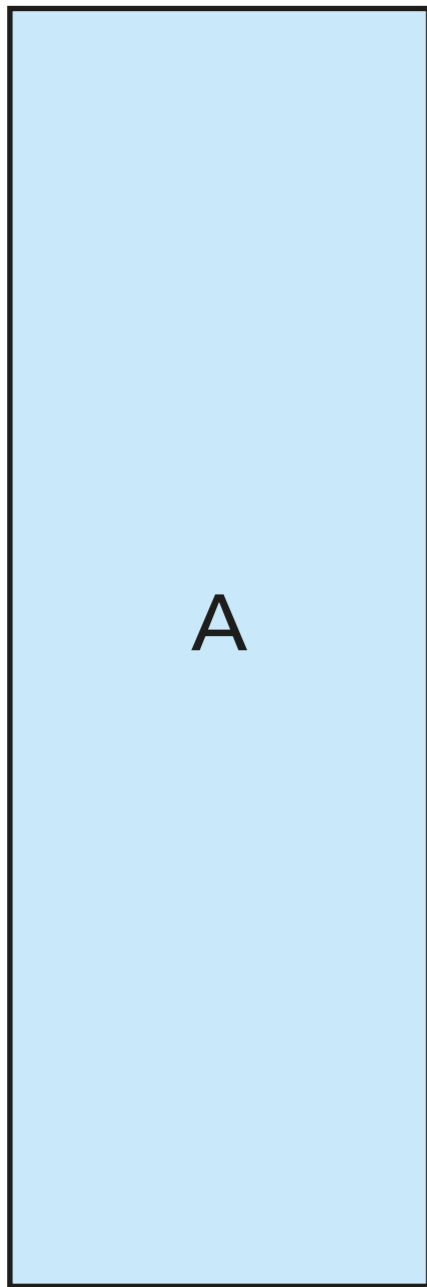
Use a piece of wool to measure the perimeter of each rectangle.

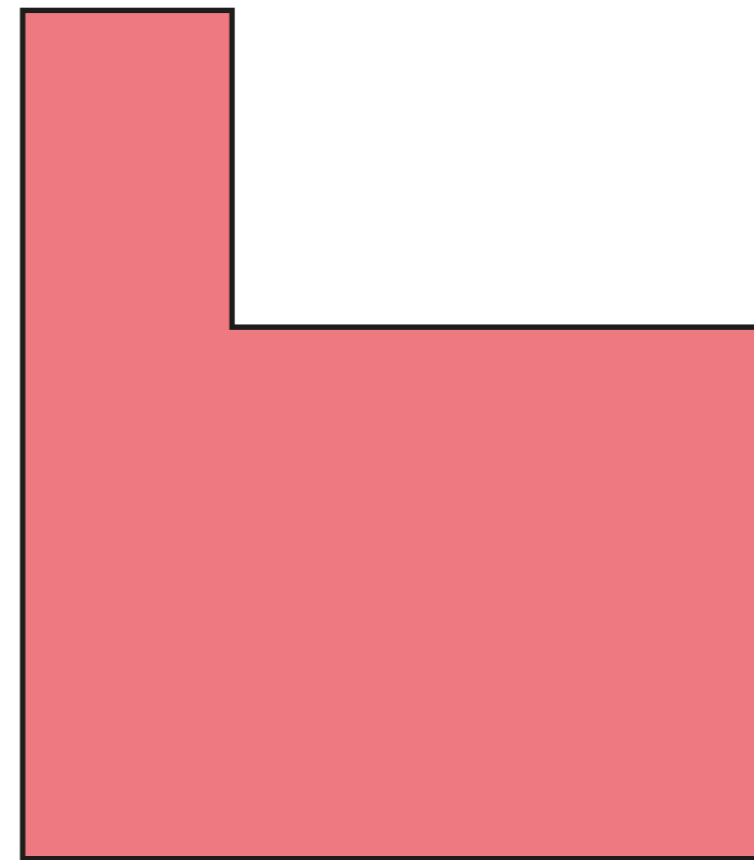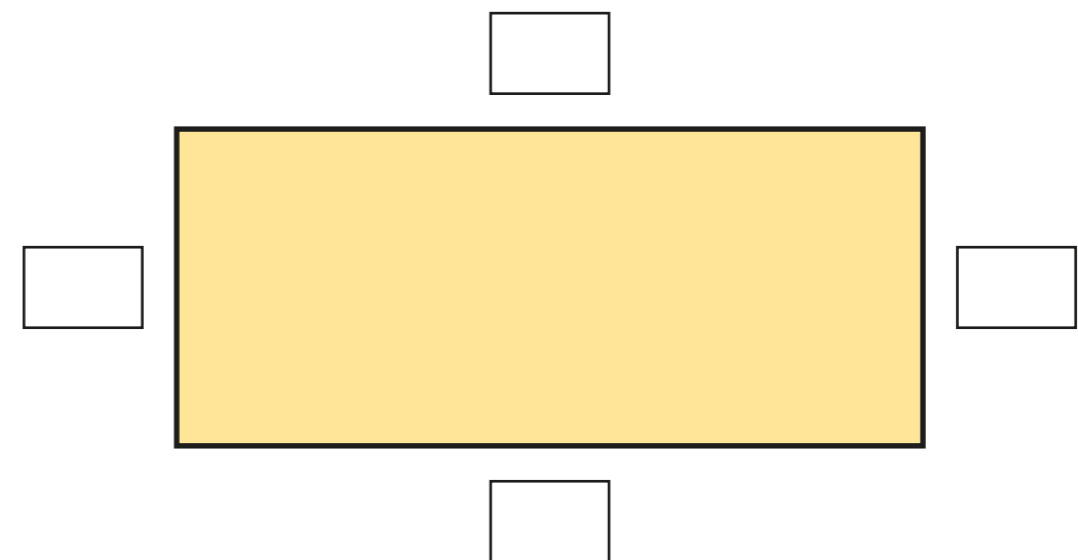How much wool did you need for each one?

Give units with your answer.

A = [ ]   B = [ ]

2 Use a piece of wool to measure the perimeter of the hexagon.

How much wool did you need? Give units with your answer.

[ ]

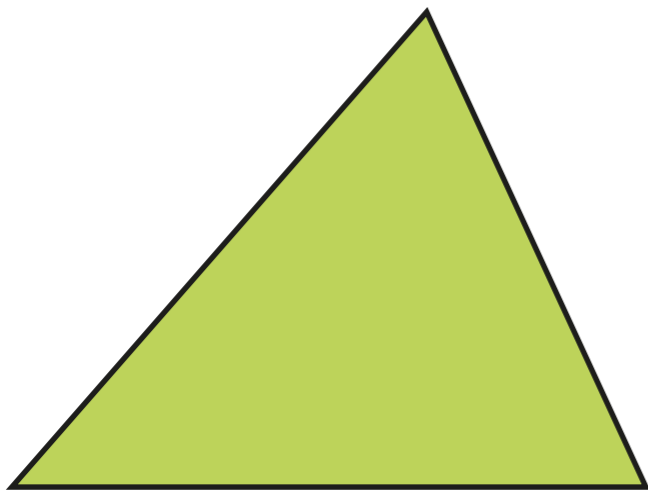**3** **a)** Measure each side of the rectangle and label it.

[ ]

[ ]   [ ]

[ ]

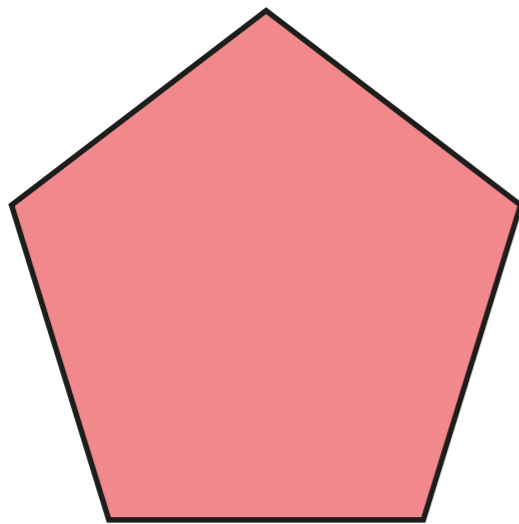**b)** What is the perimeter of the rectangle?   [ ]

4 Measure the perimeter of each shape.
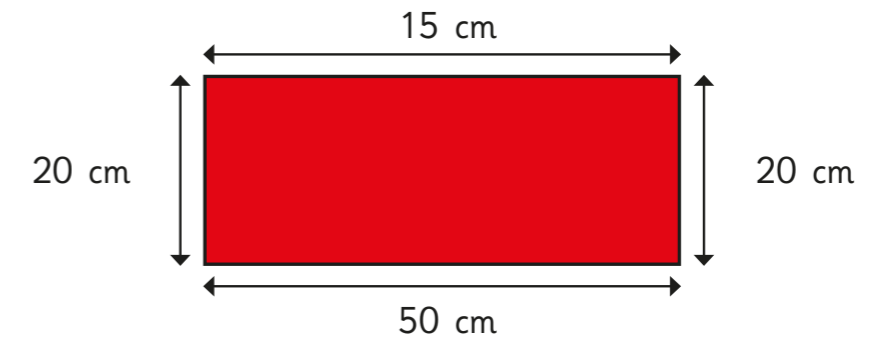
a)

perimeter = ⬚

b)

perimeter = ⬚

5 Draw a triangle with a perimeter of 15 cm.

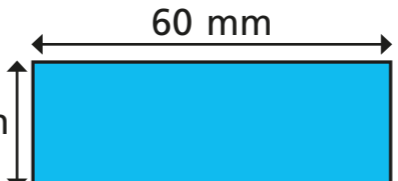**6** Aisha is working out the perimeter of a rectangle.

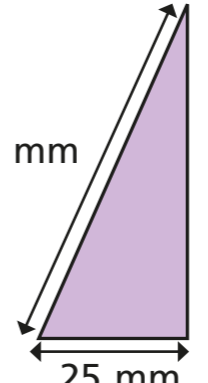She measures the length of all 4 sides and labels the rectangle.

15 cm

20 cm   20 cm

50 cm

How do you know that Aisha's measurements are wrong?

7 Is it possible to work out the perimeter of each shape?

Circle your answer.

a)   8 cm

yes   no

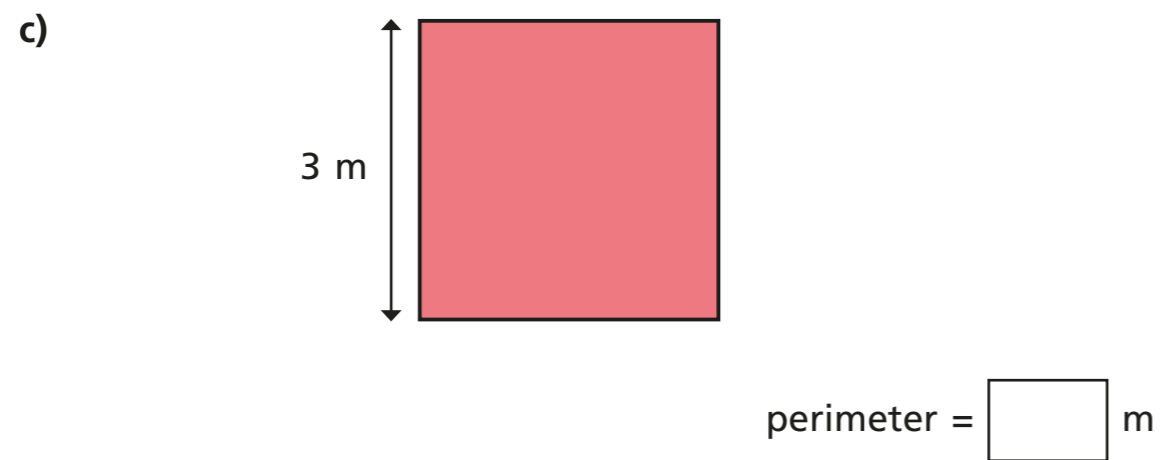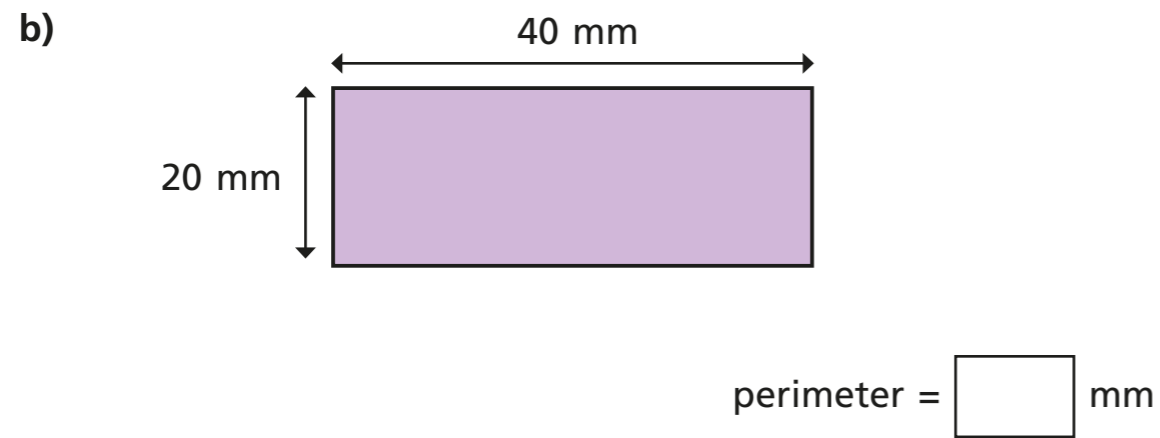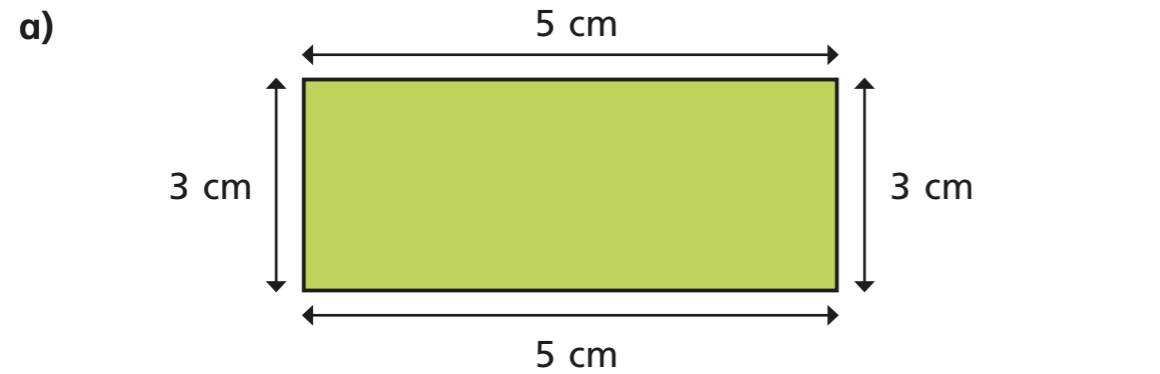**b)**   60 mm

25 mm

yes   no

c)

60 mm

25 mm

yes   no

How do you know whether you can or cannot find the perimeter of each shape?

Talk about it with a partner.

Calculate perimeter

White Rose Maths

1) Work out the perimeter of each shape.

a)

5 cm

3 cm ... 3 cm

5 cm

perimeter = ▢ cm

b)

40 mm

20 mm

perimeter = ▢ mm

c)

3 m

perimeter = ▢ m

2) Rosie and Eva work out the perimeter of the shape below.

6 cm

4 cm

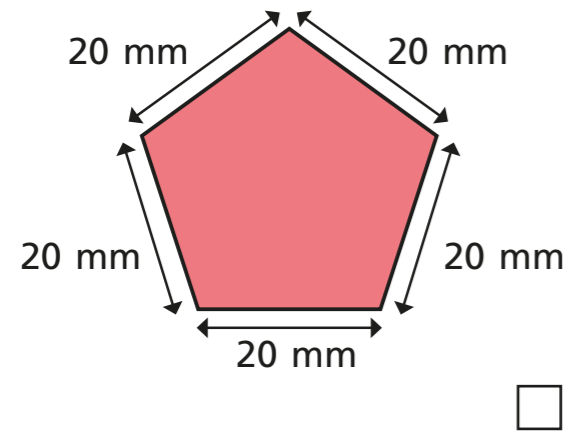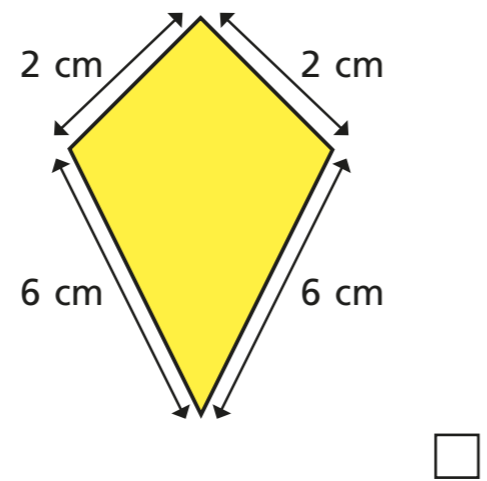Rosie: 6 + 4 = 10, so the perimeter is 10 cm.

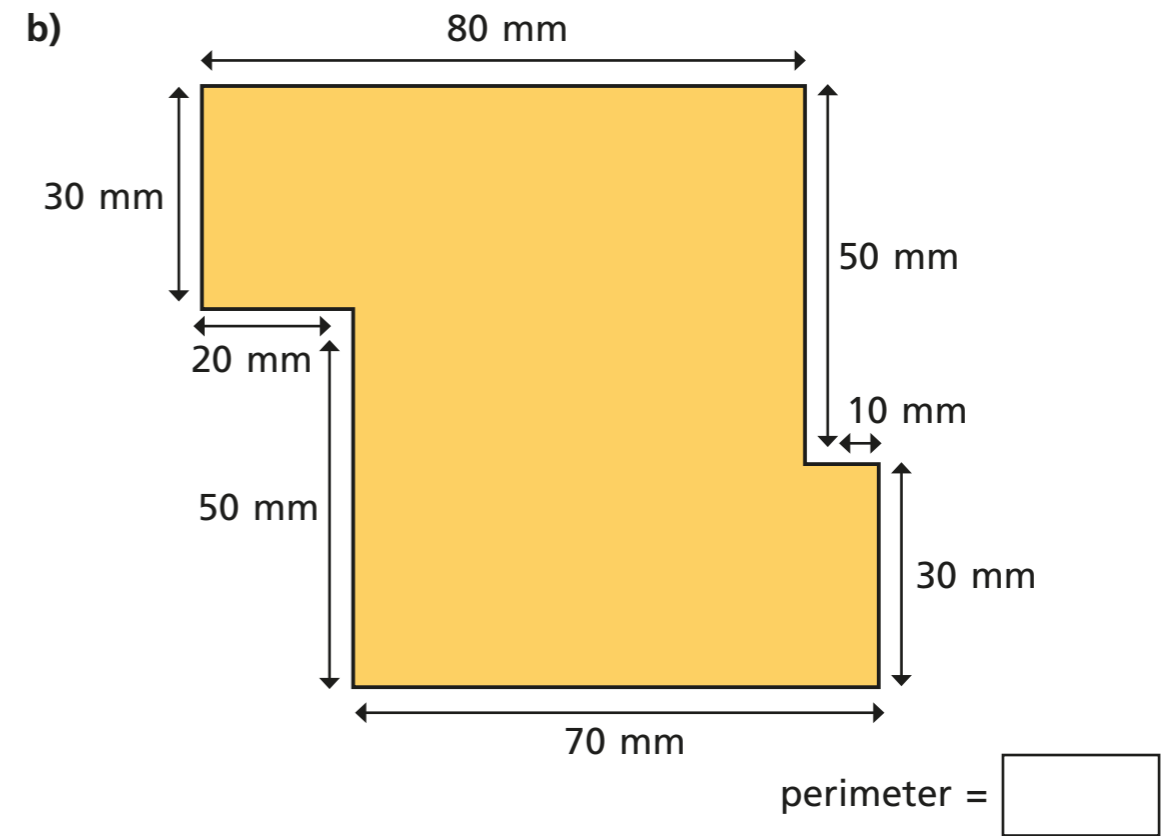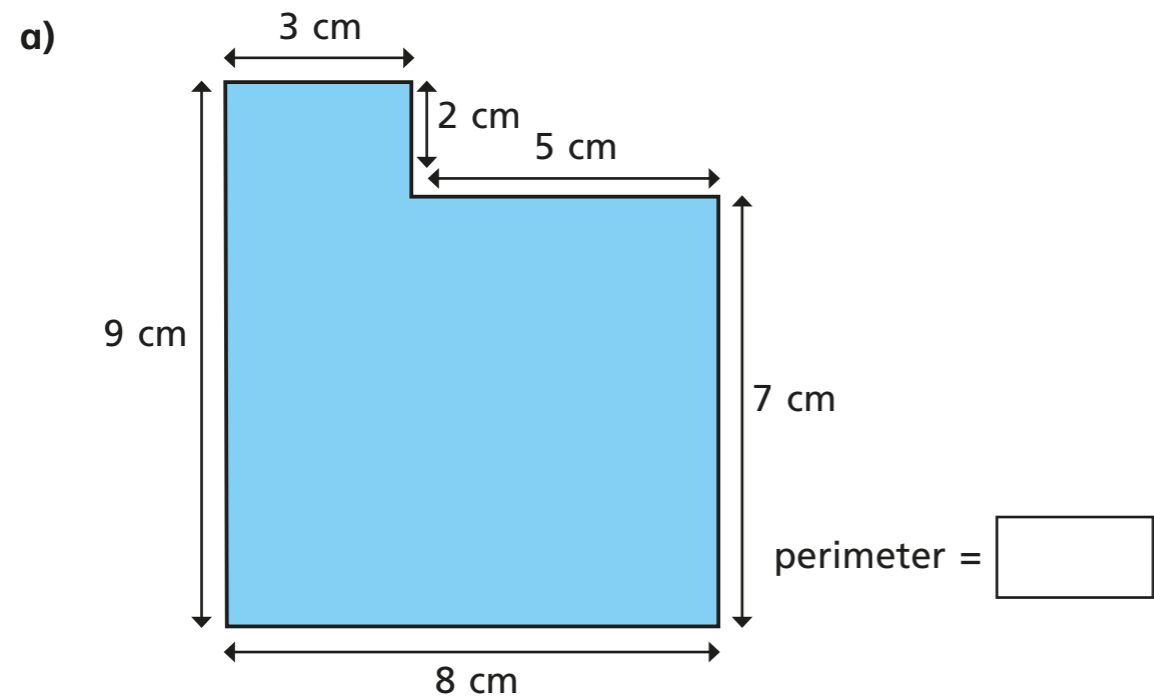Eva: The perimeter is 20 cm.

Who is correct? _____

How do you know?

_____

_____

3) Tick the shapes with a perimeter of 16 cm.

8 cm

2 cm

▢

40 mm

▢

10 cm

6 cm

▢

6 cm

2 cm

▢

4 Which shape has the longest perimeter? Tick your answer.

4 cm · 3 cm · 3 cm · 4 cm

2 cm · 2 cm · 6 cm · 6 cm

☐   ☐

20 mm · 20 mm · 20 mm · 20 mm · 20 mm

☐
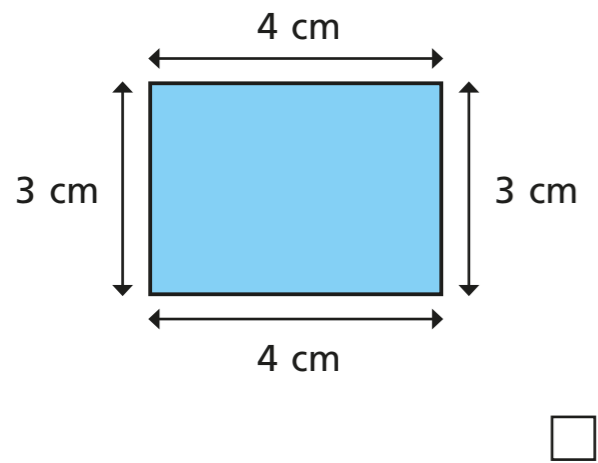
Show all your workings.

5 Work out the perimeter of these shapes.

a)

3 cm · 2 cm · 5 cm · 9 cm · 7 cm · 8 cm

perimeter = ☐

b)

80 mm · 30 mm · 50 mm · 20 mm · 50 mm · 10 mm · 30 mm · 70 mm

perimeter = ☐

What do you notice?

6 This rectangle has a perimeter of 18 cm.

Work out the length of side a.

6 cm · a

perimeter = 18 cm

side a = ☐