

Varied Fluency

Step 3: Perimeter of a Rectangle

National Curriculum Objectives:

Mathematics Year 4: (4M7a) [Measure and calculate the perimeter of a rectilinear figure \(including squares\) in centimetres and metres](#)

Differentiation:

Developing Questions to support working out the perimeter of a rectangle where the measurements of all sides are given and are in cm.

Expected Questions to support working out the perimeter of a rectangle where not all measurements are given. Measurements are given in cm and mm (no conversion needed).

Greater Depth Questions to support working out the perimeter of a rectangle where not all measurements are given. Measurements are given in cm and mm (conversion needed).

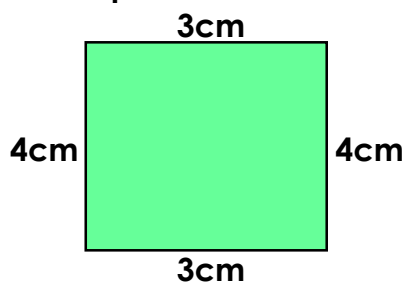
More [Year 4 Length and Perimeter](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Perimeter of a Rectangle

Perimeter of a Rectangle

1a. Circle the perimeter of the rectangle.



18cm

14cm

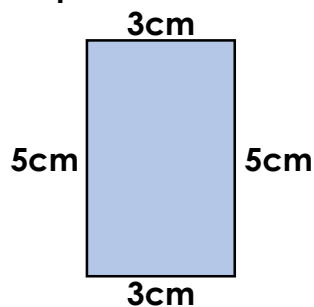
16cm



not to scale

VF

1b. Circle the perimeter of the rectangle.



13cm

20cm

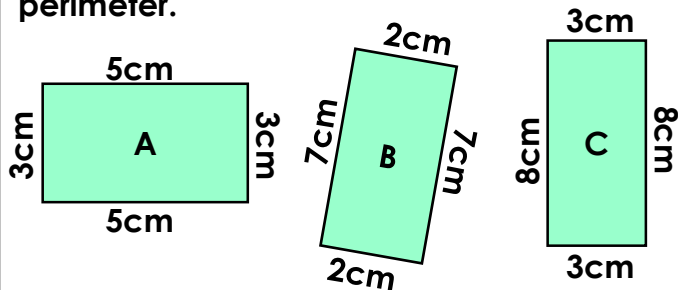
16cm



not to scale

VF

2a. Match the rectangle to the correct perimeter.



22cm

18cm

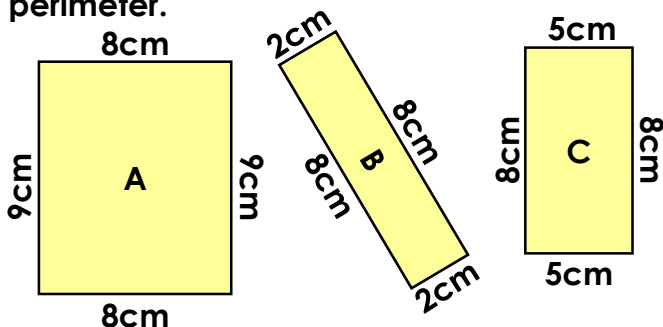
16cm



not to scale

VF

2b. Match the rectangle to the correct perimeter.



20cm

34cm

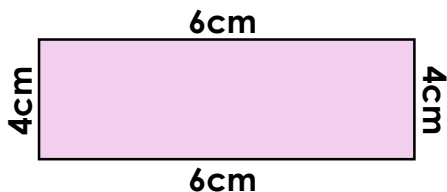
26cm



not to scale

VF

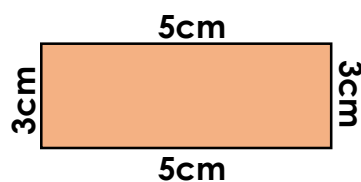
3a. True or false? The perimeter of the rectangle below is 24cm.



not to scale

VF

3b. True or false? The perimeter of the rectangle below is 16cm.



not to scale

VF

4a. Choose two measurements which will make a rectangle with a perimeter of 20cm.

4cm

6cm

7cm

5cm



VF

4b. Choose two measurements which will make a rectangle with a perimeter of 24cm.

8cm

7cm

6cm

4cm

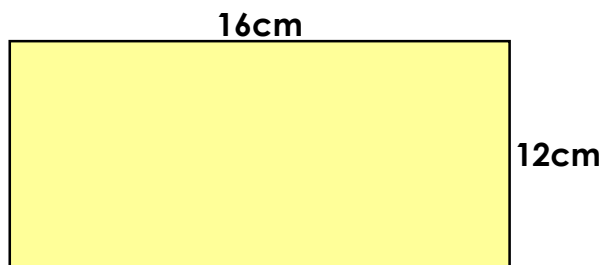


VF

Perimeter of a Rectangle

Perimeter of a Rectangle

5a. Circle the perimeter of the rectangle.



56cm

52cm

54cm



not to scale

VF

5b. Circle the perimeter of the rectangle.



340mm

320mm

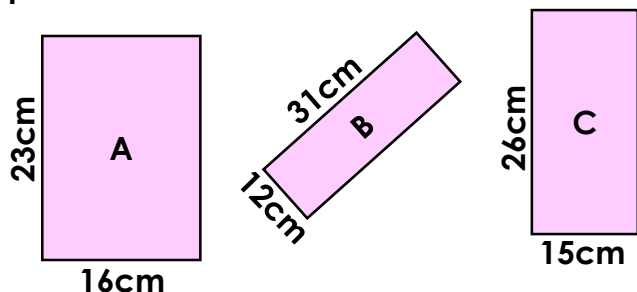
360mm



not to scale

VF

6a. Match the rectangle to the correct perimeter.



86cm

78cm

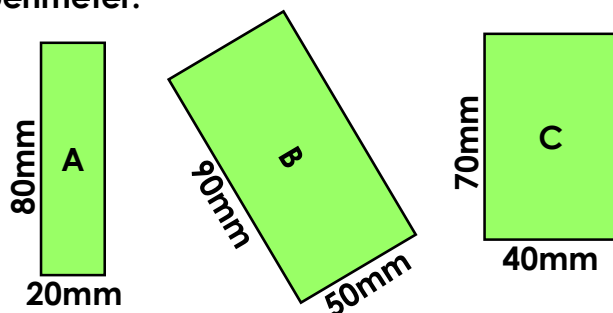
82cm



not to scale

VF

6b. Match the rectangle to the correct perimeter.



220mm

200mm

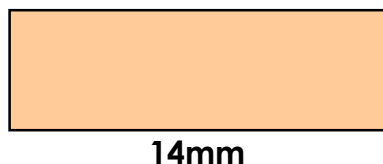
280mm



not to scale

VF

7a. The perimeter of this rectangle is 50mm. Calculate the missing sides.



14mm



not to scale

VF

7b. The perimeter of this rectangle is 42cm. Calculate the missing sides.



4cm



not to scale

VF

8a. Choose two measurements which will make a rectangle with a perimeter of 44mm.

10mm

12mm

9mm

14mm



VF

8b. Choose two measurements which will make a rectangle with a perimeter of 64cm.

10cm

21cm

12cm

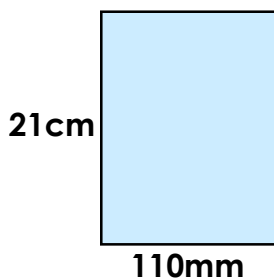
11cm



VF

Perimeter of a Rectangle

9a. Circle the perimeter of the rectangle.



62cm

64cm

66cm

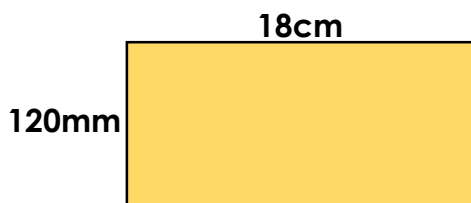


not to scale

VF

Perimeter of a Rectangle

9b. Circle the perimeter of the rectangle.



62cm

58cm

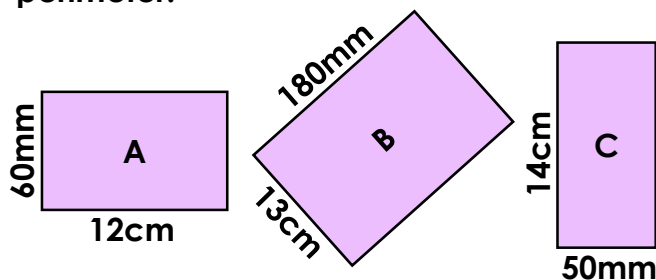
60cm



not to scale

VF

10a. Match the rectangle to the correct perimeter.



38cm

62cm

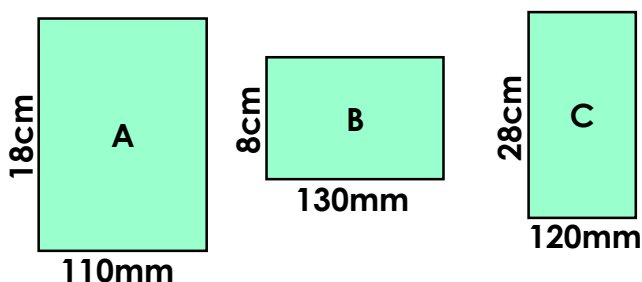
36cm



not to scale

VF

10b. Match the rectangle to the correct perimeter.



42cm

58cm

80cm



not to scale

VF

11a. The perimeter of this rectangle is 76cm. Calculate the missing sides.



220mm



not to scale

VF

11b. The perimeter of this rectangle is 82cm. Calculate the missing sides.



not to scale

VF

12a. Choose two measurements which will make a rectangle with a perimeter of 540mm.

25cm

13cm

19cm

14cm



VF

12b. Choose two measurements which will make a rectangle with a perimeter of 720mm.

20cm

21cm

12cm

15cm



VF

Varied Fluency
Perimeter of a Rectangle

Developing

- 1a. 14cm
2a. $A = 16\text{cm}$, $B = 18\text{cm}$, $C = 22\text{cm}$
3a. False. The perimeter of the rectangle is 20cm.
4a. 4cm and 6cm ($4 + 4 + 6 + 6 = 20\text{cm}$)

Expected

- 5a. 56cm
6a. $A = 78\text{cm}$, $B = 86\text{cm}$, $C = 82\text{cm}$
7a. $14\text{mm} + 11\text{mm} + 11\text{mm}$
8a. 10mm and 12mm ($10\text{mm} + 10\text{mm} + 12\text{mm} + 12\text{mm} = 44\text{mm}$)

Greater Depth

- 9a. 64cm
10a. $A = 36\text{cm}$, $B = 62\text{cm}$, $C = 38\text{cm}$
11a. 22cm (220mm) + 16cm (160mm) + 16cm (160mm)
12a. 13cm and 14cm ($13 + 13 + 14 + 14 = 54\text{cm}$ / 540mm)

Varied Fluency
Perimeter of a Rectangle

Developing

- 1b. 16cm
2b. $A = 34\text{cm}$, $B = 20\text{cm}$, $C = 26\text{cm}$
3b. True
4b. 8cm and 4cm ($8 + 8 + 4 + 4 = 24\text{cm}$)

Expected

- 5b. 320mm
6b. $A = 200\text{mm}$, $B = 280\text{mm}$, $C = 220\text{mm}$
7b. $4\text{cm} + 17\text{cm} + 17\text{cm}$
8b. 21cm and 11cm ($21 + 21 + 11 + 11 = 64\text{cm}$)

Greater Depth

- 9b. 60cm
10b. $A = 58\text{cm}$, $B = 42\text{cm}$, $C = 80\text{cm}$
11b. 16cm (160mm) + 25cm (250mm) + 25cm (250mm)
12b. 21cm and 15cm ($21 + 21 + 15 + 15 = 72\text{cm}$ / 720mm)