Varied Fluency
Step 1: Measure Perimeter

National Curriculum Objectives:

Mathematics Year 5: (5M7a) Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

Differentiation:

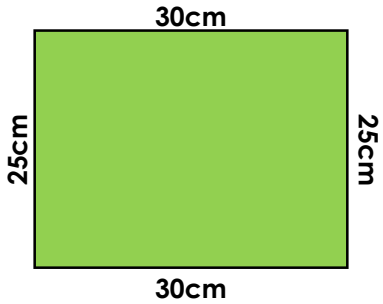
Developing Questions to support measuring perimeter of simple rectilinear shapes in whole centimetres and metres with no conversion of units.
Expected Questions to support measuring perimeter of composite rectilinear shapes in centimetres and metres with no conversion of units.
Greater Depth Questions to support measuring perimeter of composite shapes in centimetres and metres with conversion of units.

More resources which follow the same small steps as White Rose.

Did you like this resource? Don't forget to review it on our website.

Measure Perimeter

1a. Find the perimeter of this shape.



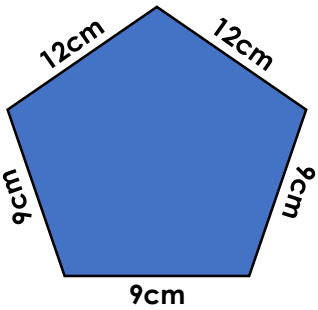
D

Not to scale

VF

Measure Perimeter

1b. Find the perimeter of this shape.

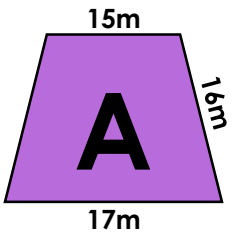


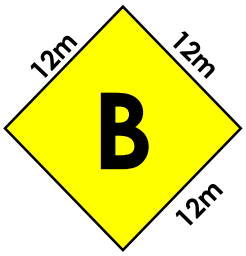
D

Not to scale

VF

2a. Match the shape to its perimeter.





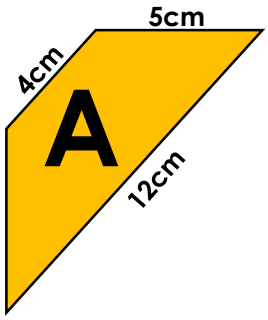
64m	48cm	48m

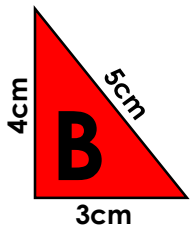
D

Not to scale

VF

2b. Match the shape to its perimeter.





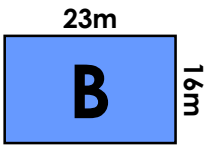
26m	12cm	26cm

D

Not to scale

VF

3a. Which shape has the longest perimeter?

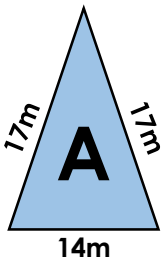


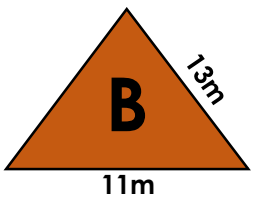
D

Not to scale

VF

3b. Which shape has the longest perimeter?





D

Not to scale

VF

4a. A shape has three sides of 9cm, and one of 13cm.

What is the perimeter of the shape?

D

VF

4b. A shape has 7 equal sides of 12cm.

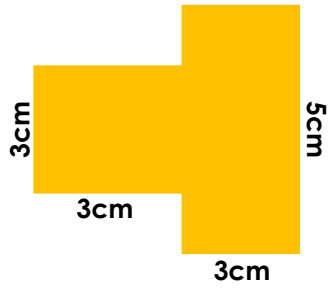
What is the perimeter of the shape?

D

VF

Measure Perimeter

5a. Find the perimeter of this shape.

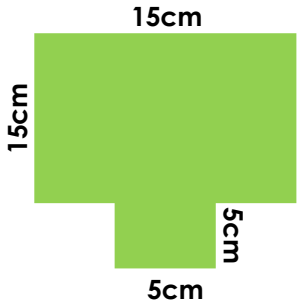


Not to scale

VF

Measure Perimeter

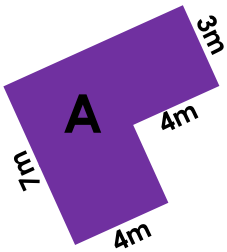
5b. Find the perimeter of this shape.

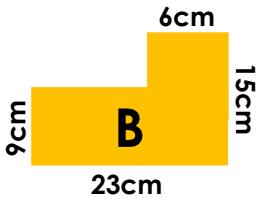


Not to scale

VF

6a. Match the shape to its perimeter.



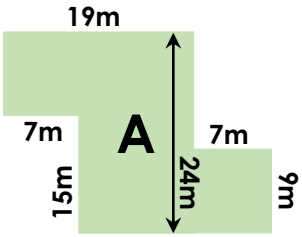


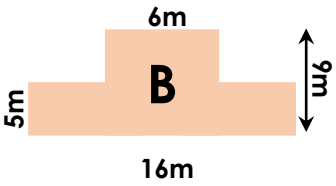
30m	48m	76cm

Not to scale

VF

6b. Match the shape to its perimeter.



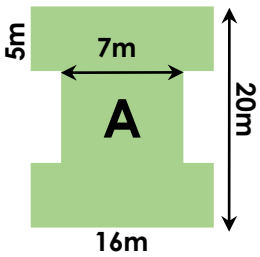


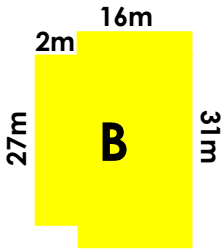
70m	100m	50m

Not to scale

VF

7a. Which shape has the longest perimeter?

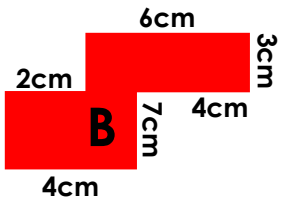




Not to scale

VF

7b. Which shape has the longest perimeter?



Not to scale

VF

8a. A shape has three sides of 4m, three sides of 8m and four of 6m.

What is the perimeter of the shape?

VF

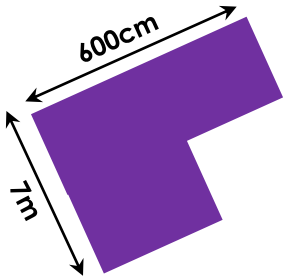
8b. A shape has four sides of 7cm, three sides of 8cm and two of 9cm.

What is the perimeter of the shape?

VF

Measure Perimeter

9a. The length of the longer sides are double the length of the shorter sides. Find the perimeter of the shape.

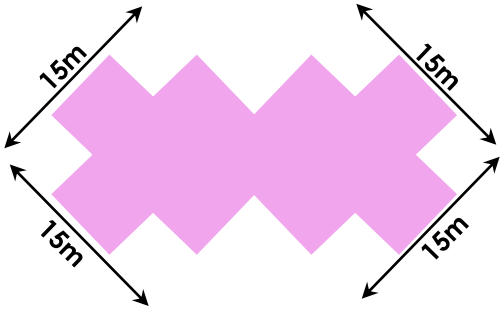


Not to scale

VF

Measure Perimeter

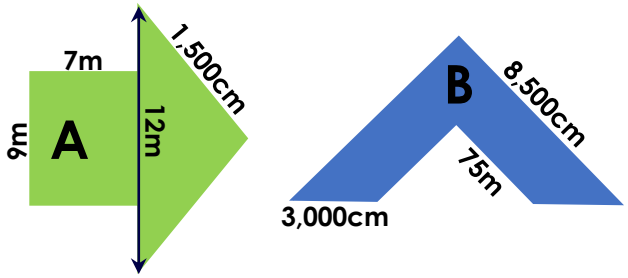
9b. All the sides of the shape below are the same length. Find the perimeter of the shape.



Not to scale

VF

10a. Match the shape to its perimeter.

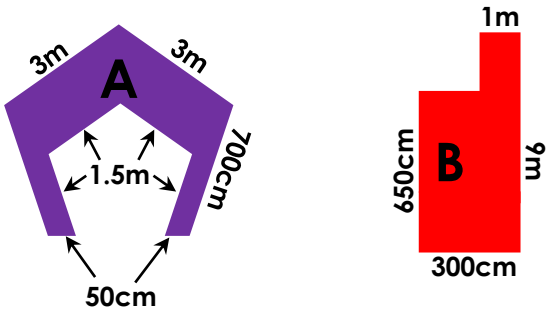


57m	97m	56m	380m

Not to scale

VF

10b. Match the shape to its perimeter.

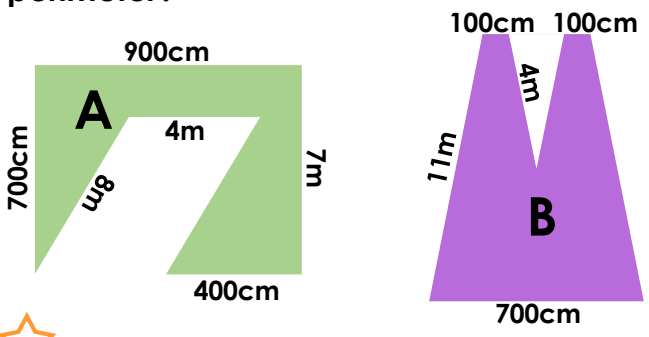


27m	100m	120m	24m

Not to scale

VF

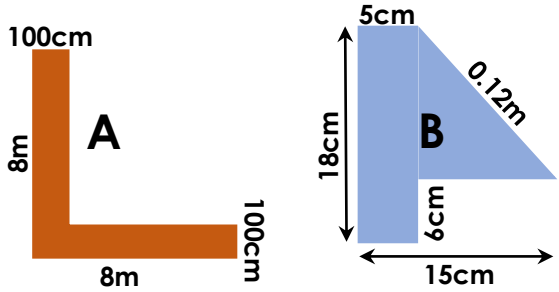
11a. Which shape has the longest perimeter?



Not to scale

VF

11b. Which shape has the longest perimeter?



Not to scale

VF

12a. A shape has five sides of 450cm, six sides of 3m and three of 6m.

What is the perimeter of the shape?

VF

12b. A shape has nine sides of 2m, three sides of 150cm and two of 8m.

What is the perimeter of the shape?

VF

Varied Fluency
Measure Perimeter

Developing
1a. 110cm
2a. A = 64m, B = 48m
3a. Shape B: A = 74m, B = 78m
4a. 40cm

Expected
5a. 22cm
6a. A = 30m, B = 76cm
7a. Shape B: A = 90m, B = 98m
8a. 60m

Greater Depth
9a. 26m
10a. A = 56m, B = 380m
11a. Shape A: A = 47m, B = 39m
12a. 58.5m or 5,850cm

Varied Fluency
Measure Perimeter

Developing
1b. 51cm
2b. A = 26cm, B = 12cm
3b. Shape A: A = 48m, B = 37m
4b. 84cm

Expected
5b. 70cm
6b. A = 100m, B = 50m
7b. Shape A: A = 44cm, B = 36cm
8b. 70cm

Greater Depth
9b. 100m
10b. A = 27m, B = 24m
11b. Shape B: A = 38cm, B = 56cm
12b. 38.5m or 3,850cm