

# Varied Fluency

## Step 1: Measure Perimeter

### Teaching Note:

Shapes are presented on a 1 cm x 1 cm grid but measurement may vary dependent on printer settings.

### 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 regular shapes with up to 4 sides in whole centimetres.

**Expected** Questions to support measuring perimeter of regular and rectilinear shapes in whole centimetres.

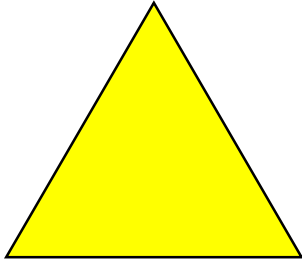
**Greater Depth** Questions to support measuring perimeter of rectilinear shapes in whole and half centimetres.

More [Year 5 Perimeter and Area](#) resources.

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

# Measure Perimeter

1a. Measure the perimeter of this shape.



VF

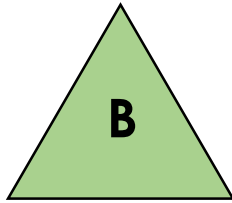
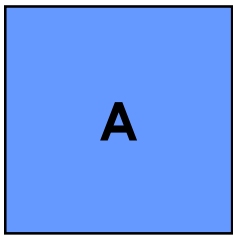
# Measure Perimeter

1b. Measure the perimeter of this shape.



VF

2a. Match the shape to its perimeter.



12cm

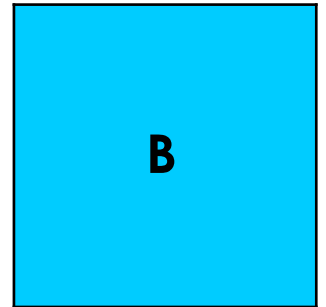
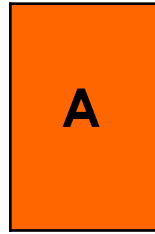
9cm

14cm



VF

2b. Match the shape to its perimeter.



15cm

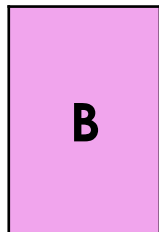
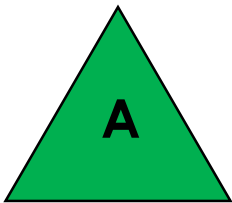
10cm

16cm



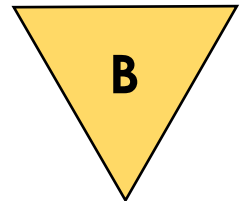
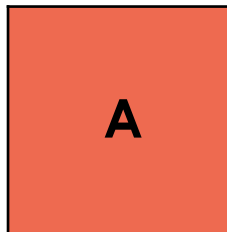
VF

3a. Which shape has the longest perimeter?



VF

3b. Which shape has the longest perimeter?



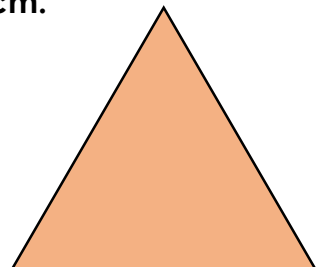
VF

4a. True or false? The perimeter of this shape is 14cm.



VF

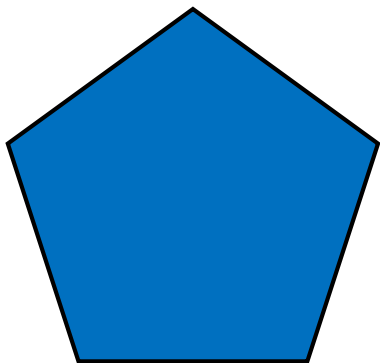
4b. True or false? The perimeter of this shape is 12cm.



VF

# Measure Perimeter

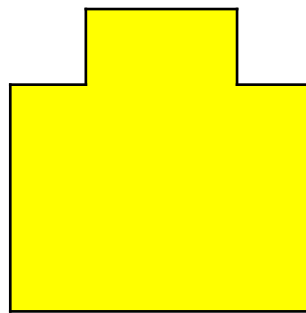
5a. Measure the perimeter of this shape.



VF

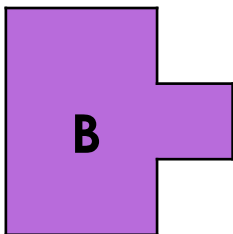
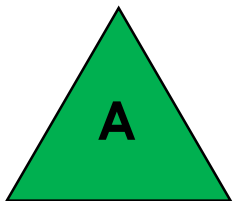
# Measure Perimeter

5b. Measure the perimeter of this shape.



VF

6a. Match the shape to its perimeter.



9cm

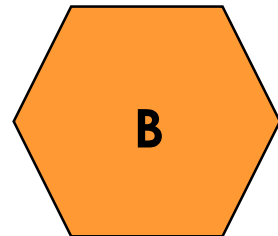
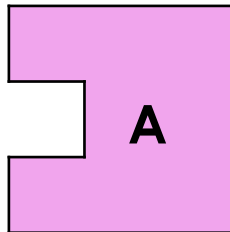
14cm

12cm



VF

6b. Match the shape to its perimeter.



14cm

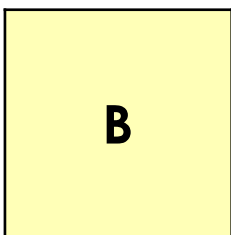
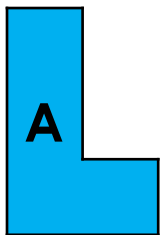
16cm

12cm



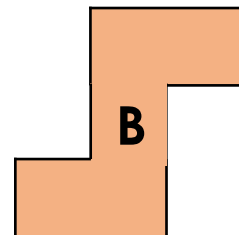
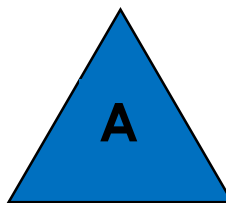
VF

7a. Which shape has the longest perimeter?



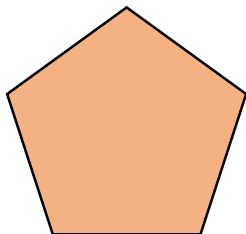
VF

7b. Which shape has the longest perimeter?



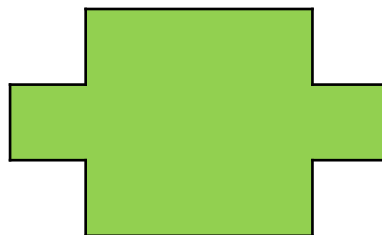
VF

8a. True or false? The perimeter of this shape is 12cm.



VF

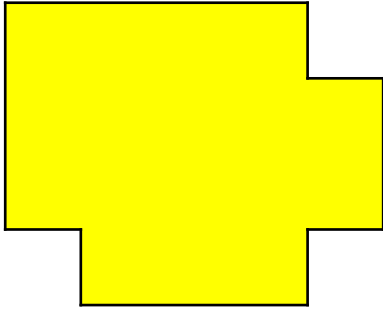
8b. True or false? The perimeter of this shape is 16cm.



VF

## Measure Perimeter

9a. Measure the perimeter of this shape.



VF

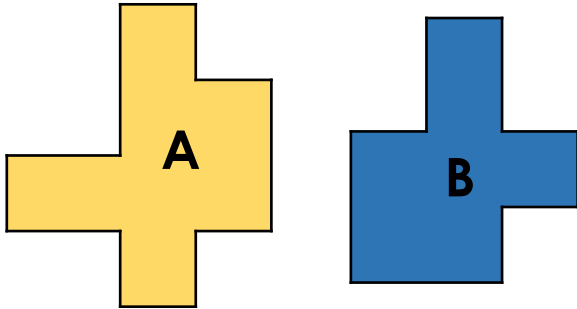
## Measure Perimeter

9b. Measure the perimeter of this shape.



VF

10a. Match the shape to its perimeter.



13cm

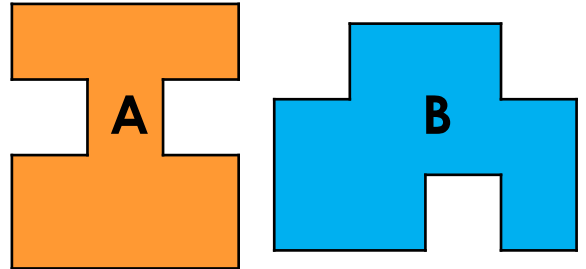
15cm

11cm



VF

10b. Match the shape to its perimeter.



14cm

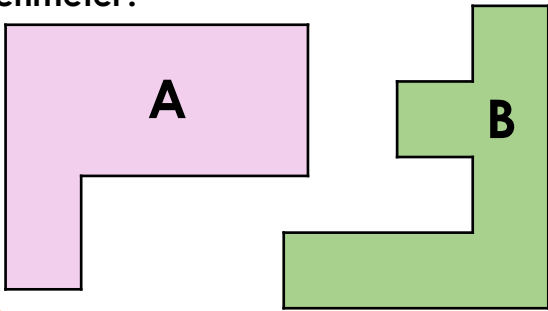
16cm

17cm



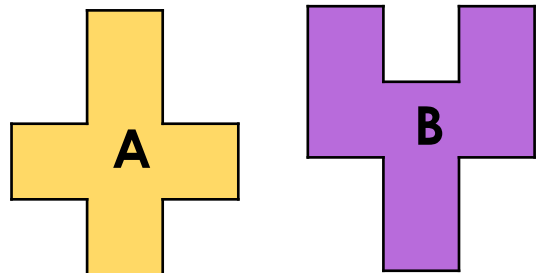
VF

11a. Which shape has the longest perimeter?



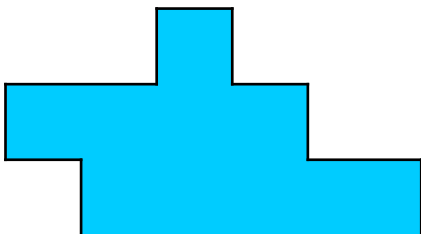
VF

11b. Which shape has the longest perimeter?



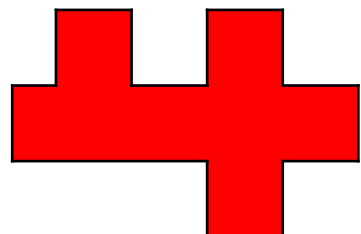
VF

12a. True or false? The perimeter of this shape is 19cm.



VF

12b. True or false? The perimeter of this shape is 17cm.



VF

## Varied Fluency Measure Perimeter

### Developing

- 1a. 12cm
- 2a.  $A = 12\text{cm}$ ,  $B = 9\text{cm}$
- 3a. Shape B:  $A = 9\text{cm}$ ,  $B = 10\text{cm}$
- 4a. False. The perimeter of the shape is 16cm.

### Expected

- 5a. 15cm
- 6a.  $A = 9\text{cm}$ ,  $B = 12\text{cm}$
- 7a. Shape B:  $A = 10\text{cm}$ ,  $B = 12\text{cm}$
- 8a. False. The perimeter of the shape is 10cm.

### Greater Depth

- 9a. 18cm
- 10a.  $A = 15\text{cm}$ ,  $B = 13\text{cm}$
- 11a. Shape B:  $A = 15\text{cm}$ ,  $B = 17\text{cm}$
- 12a. False. The perimeter of the shape is 17cm.

## Varied Fluency Measure Perimeter

### Developing

- 1b. 16cm
- 2b.  $A = 10\text{cm}$ ,  $B = 16\text{cm}$
- 3b. Shape A:  $A = 12\text{cm}$ ,  $B = 9\text{cm}$
- 4b. True

### Expected

- 5b. 14cm
- 6b.  $A = 14\text{cm}$ ,  $B = 12\text{cm}$
- 7b. Shape B:  $A = 9\text{cm}$ ,  $B = 12\text{cm}$
- 8b. True

### Greater Depth

- 9b. 19cm
- 10b.  $A = 17\text{cm}$ ,  $B = 16\text{cm}$
- 11b. Shape B:  $A = 13\text{cm}$ ,  $B = 15\text{cm}$
- 12a. True