

# Varied Fluency

## Step 3: Calculate 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 calculating the perimeter of simple rectilinear shapes. Includes whole centimetres and metres, with no conversion of units.

**Expected** Questions to support calculating the perimeter of composite rectilinear shapes. Includes half and quarter lengths (represented as decimals or fractions) with no conversion of units.

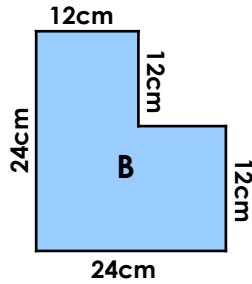
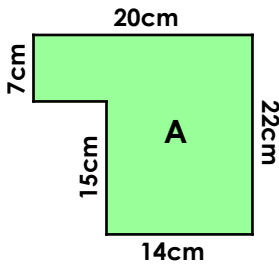
**Greater Depth** Questions to support calculating the perimeter of composite rectilinear shapes. Includes half and quarter lengths (represented as decimals or fractions) with some conversion of units.

More [Year 5 and Year 6 Perimeter, Area and Volume](#) resources.

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

# Calculate Perimeter

1a. Match the shape to the correct perimeter.



80cm

96cm

84cm

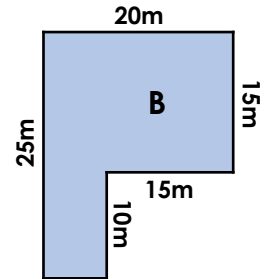
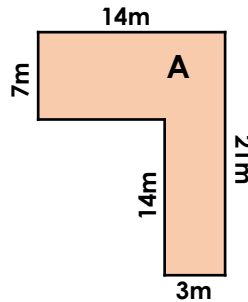


Not to scale

5 VF

# Calculate Perimeter

1b. Match the shape to the correct perimeter.



70m

80m

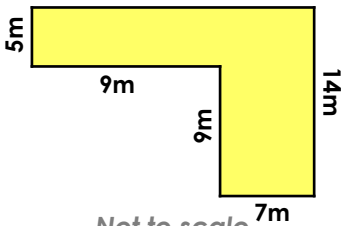
90m



Not to scale

5 VF

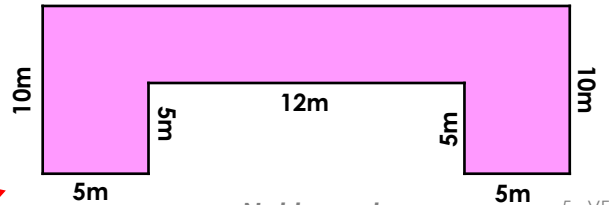
2a. Calculate the perimeter.



Not to scale

5 VF

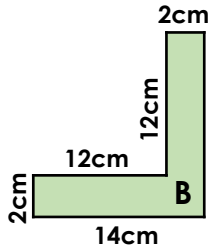
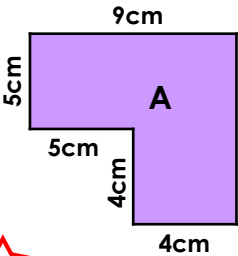
2b. Calculate the perimeter.



Not to scale

5 VF

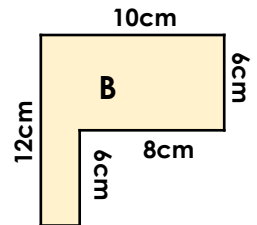
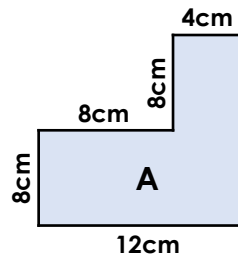
3a. True or false? The perimeter of these shapes is the same.



Not to scale

5 VF

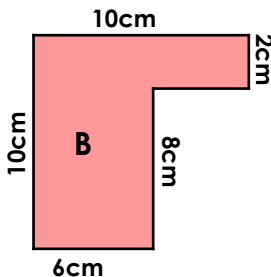
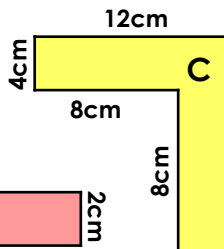
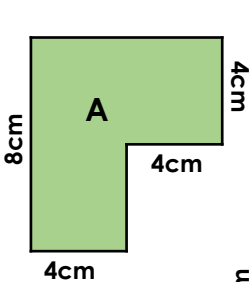
3b. True or false? The perimeter of these shapes is the same.



Not to scale

5 VF

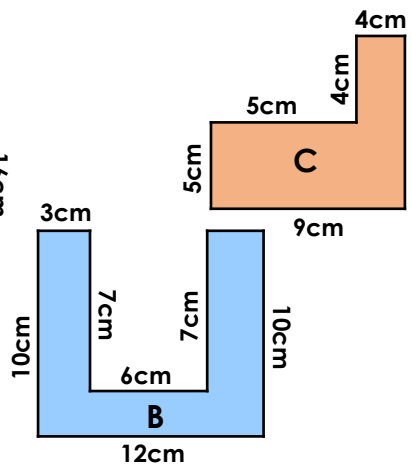
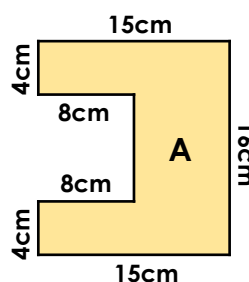
4a. Tick the shape(s) with a perimeter of 40cm.



Not to scale

5 VF

4b. Tick the shape(s) with a perimeter of 58cm.

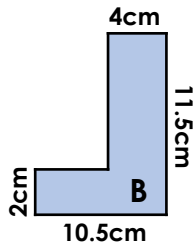
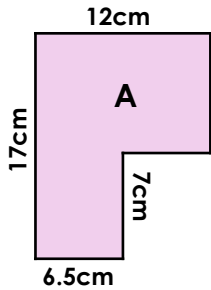


Not to scale

5 VF

## Calculate Perimeter

5a. Match the shape to the correct perimeter.



58cm

44cm

39cm

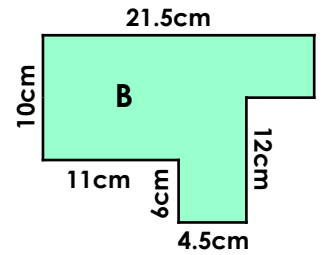
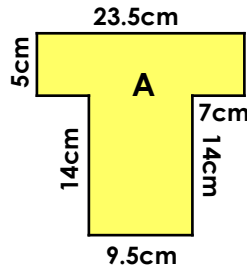


Not to scale

5 VF

## Calculate Perimeter

5b. Match the shape to the correct perimeter.



75cm

76cm

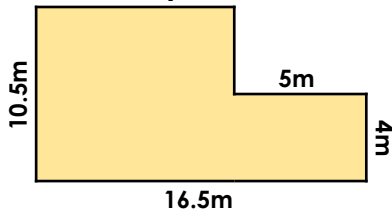
85cm



Not to scale

5 VF

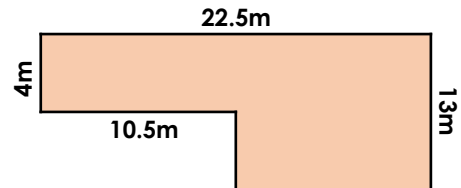
6a. Calculate the perimeter.



Not to scale

5 VF

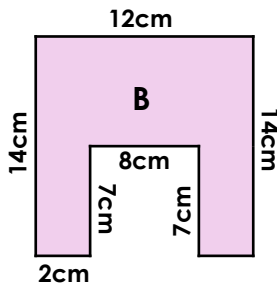
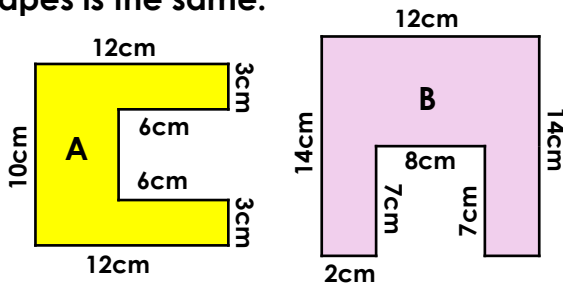
6b. Calculate the perimeter.



Not to scale

5 VF

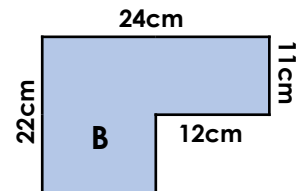
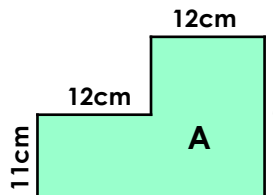
7a. True or false? The perimeter of these shapes is the same.



Not to scale

5 VF

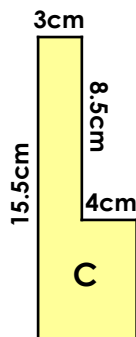
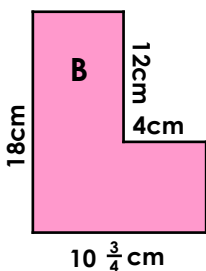
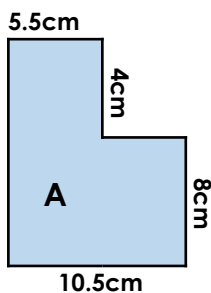
7b. True or false? The perimeter of these shapes is the same.



Not to scale

5 VF

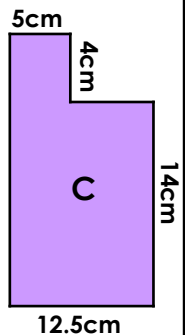
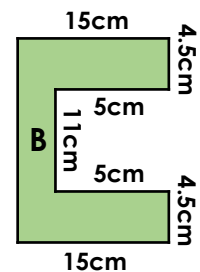
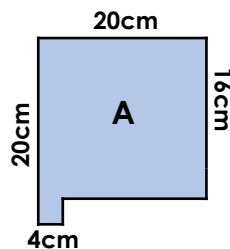
8a. Tick the shape(s) with a perimeter of 45cm.



Not to scale

5 VF

8b. Tick the shape(s) with a perimeter of 80cm.

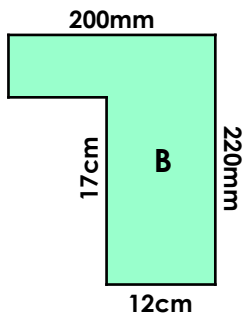
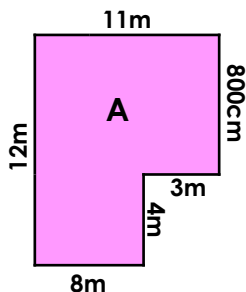


Not to scale

5 VF

# Calculate Perimeter

9a. Match the shape to the correct perimeter.



46cm

84cm

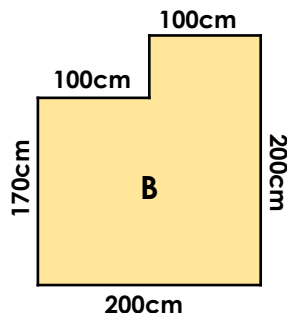
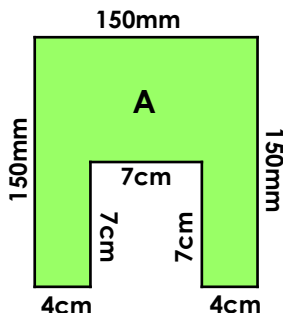
46m

Not to scale

5 VF

# Calculate Perimeter

9b. Match the shape to the correct perimeter.



740mm

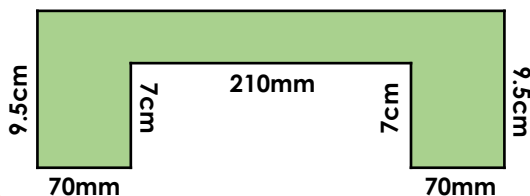
8m

80cm

Not to scale

5 VF

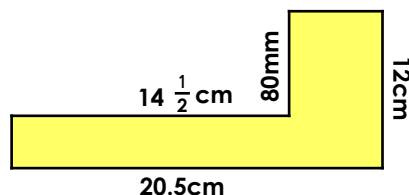
10a. Calculate the perimeter.



Not to scale

5 VF

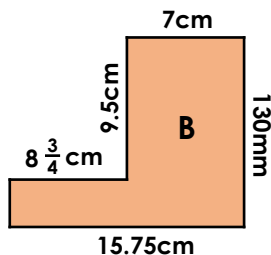
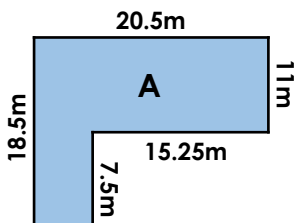
10b. Calculate the perimeter.



Not to scale

5 VF

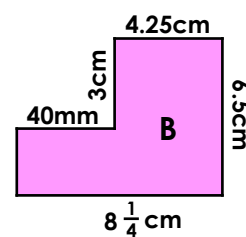
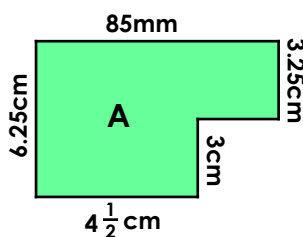
11a. True or false? The perimeter of these shapes is the same.



Not to scale

5 VF

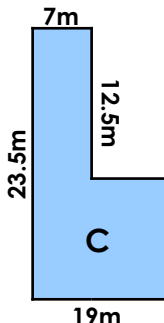
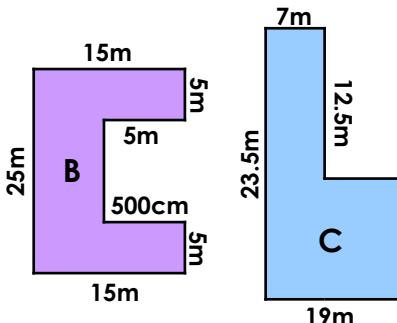
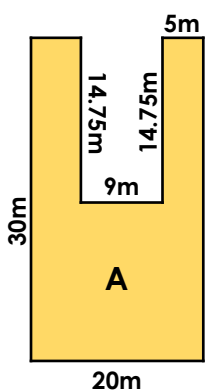
11b. True or false? The perimeter of these shapes is the same.



Not to scale

5 VF

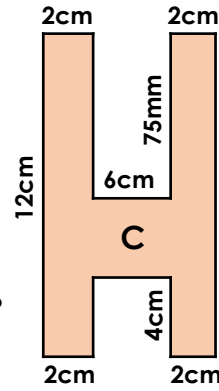
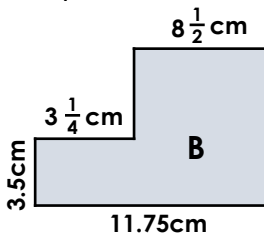
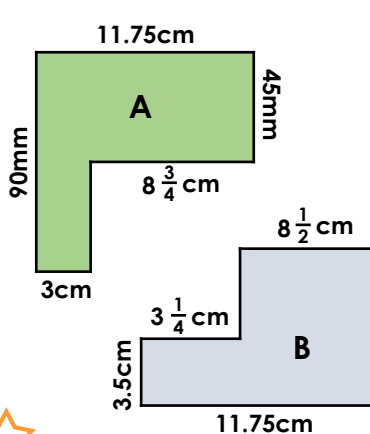
12a. Tick the shape(s) with a perimeter of 85m.



Not to scale

5 VF

12b. Tick the shape(s) with a perimeter of 41.5cm.



Not to scale

5 VF

**Varied Fluency**  
**Calculate Perimeter**

**Developing**

1a. **A = 84cm; B = 96cm**

2a. **60m**

3a. **False. A = 36cm, B = 56cm**

4a. **B**

**Expected**

5a. **A = 58cm; B = 44cm**

6a. **54m**

7a. **False; A = 56cm, B = 66cm**

8a. **A and C**

**Greater Depth**

9a. **A = 46m; B = 84cm**

10a. **103cm**

11a. **False; A = 78m, B = 57.5cm**

12a. **C**

**Varied Fluency**  
**Calculate Perimeter**

**Developing**

1b. **A = 70m; B = 90m**

2b. **74m**

3b. **False; A = 56cm, B = 44cm**

4b. **B**

**Expected**

5b. **A = 85cm; B = 75cm**

6b. **71m**

7b. **True**

8b. **A and B**

**Greater Depth**

9a. **A = 740mm; B = 8m**

10a. **65cm**

11b. **True**

12b. **A and B**