

# Varied Fluency

## Step 2: Perimeter on a Grid

### 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 calculating the perimeter of rectangles on a grid. Shapes include internal grid lines.

**Expected** Questions to support calculating the perimeter of rectilinear shapes on a grid. Shapes include internal grid lines.

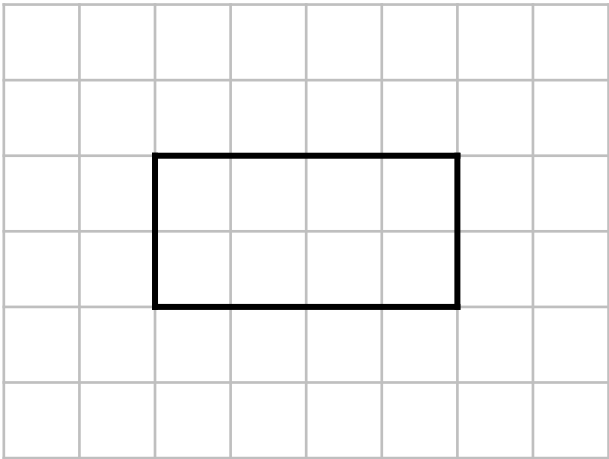
**Greater Depth** Questions to support calculating the perimeter of complex rectilinear shapes on a grid. Shapes do not include internal grid lines.

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

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

Perimeter on a Grid

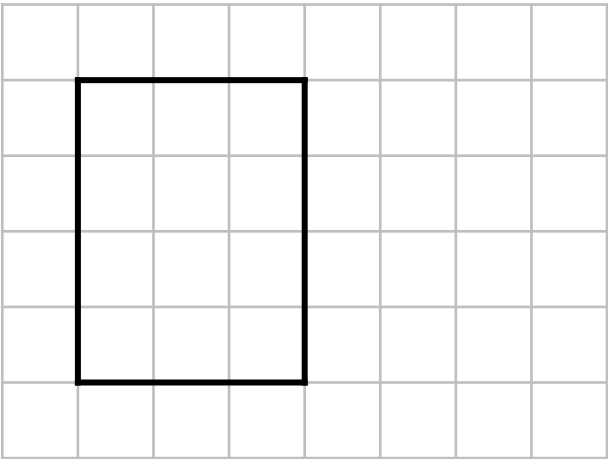
1a. What is the perimeter of the shape?



VF

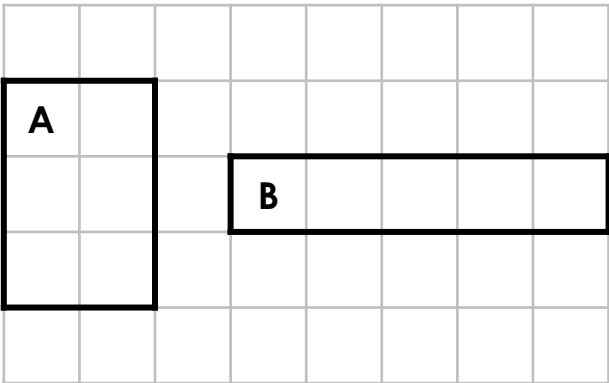
Perimeter on a Grid

1b. What is the perimeter of the shape?



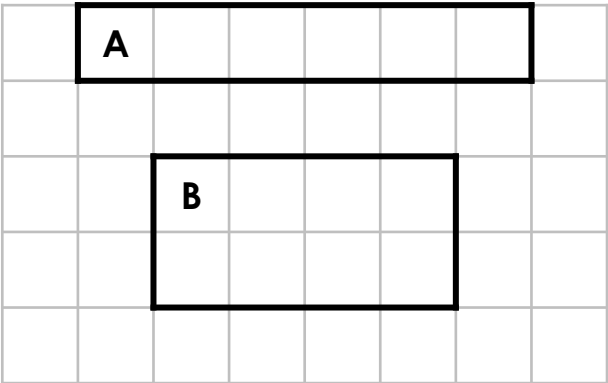
VF

2a. Which shape has the longest perimeter?



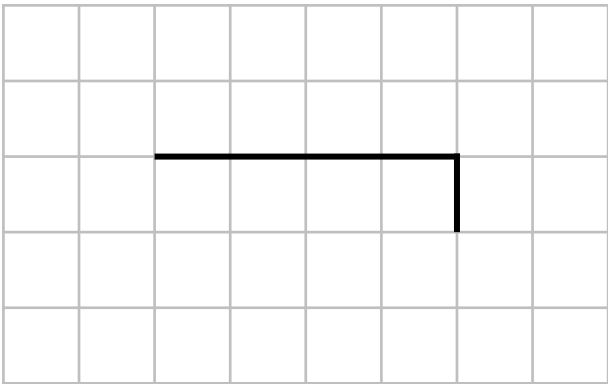
VF

2b. Which shape has the longest perimeter?



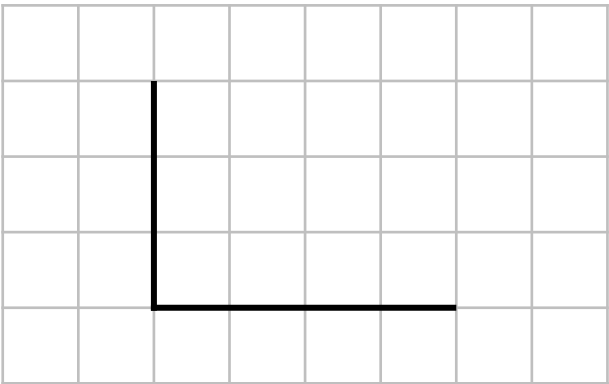
VF

3a. Complete the rectangle to give a perimeter of 10cm.



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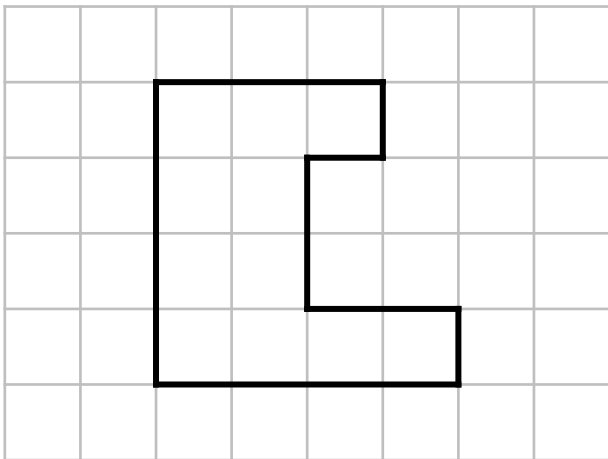
3b. Complete the rectangle to give a perimeter of 14cm.



VF

## Perimeter on a Grid

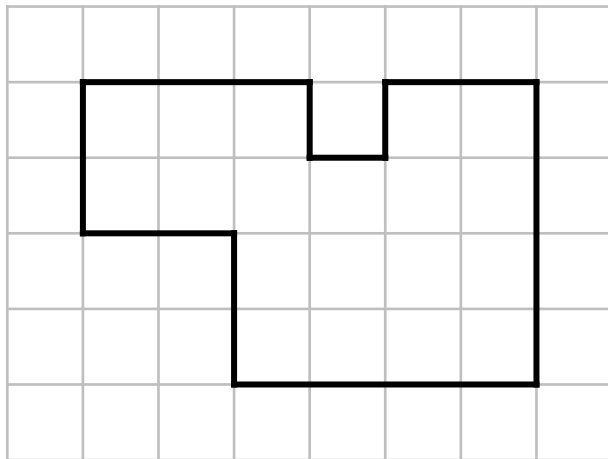
4a. What is the perimeter of the shape?



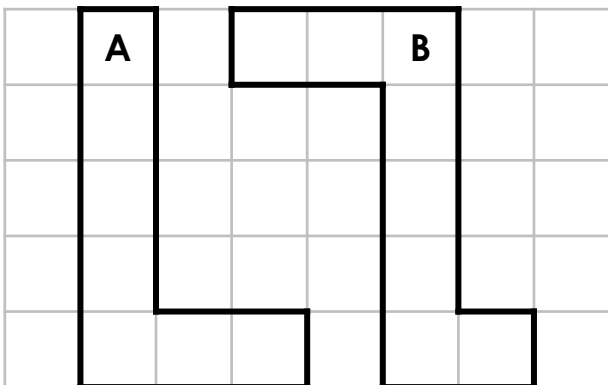
VF

## Perimeter on a Grid

4b. What is the perimeter of the shape?

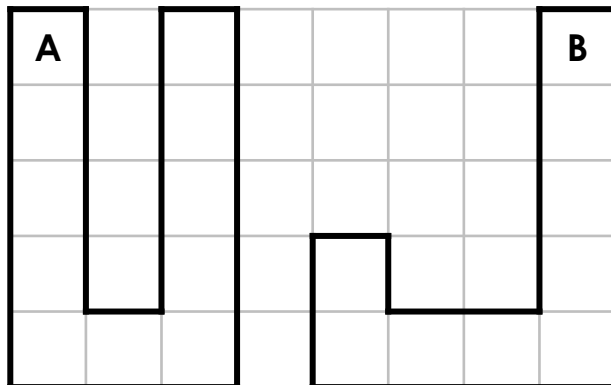


5a. Which shape has the longest perimeter?

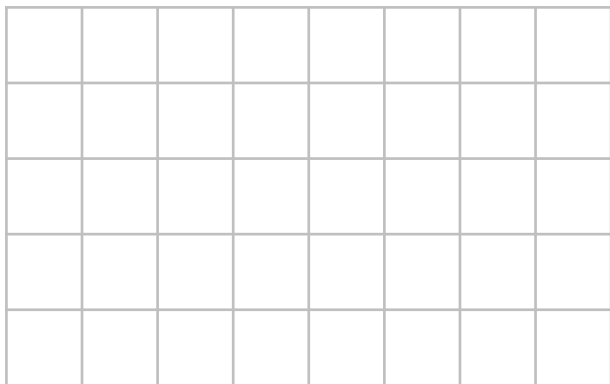


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5b. Which shape has the longest perimeter?

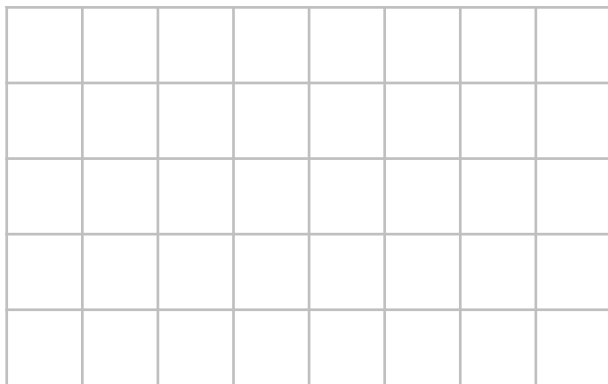


6a. Draw a shape with a perimeter of 12cm.



VF

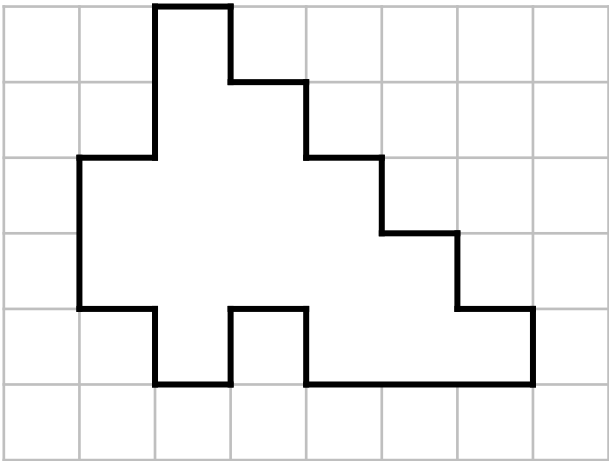
6b. Draw a shape with a perimeter of 16cm.



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Perimeter on a Grid

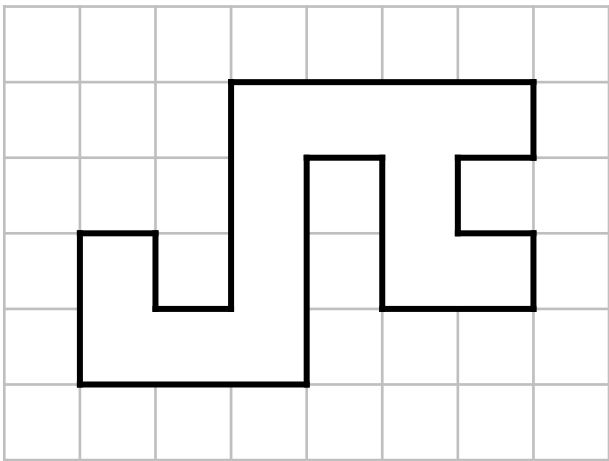
7a. What is the perimeter of the shape?



VF

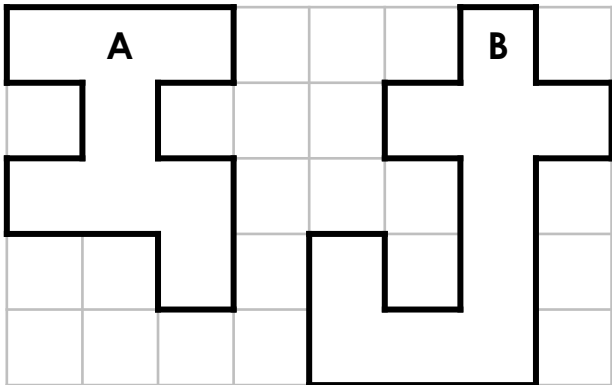
Perimeter on a Grid

7b. What is the perimeter of the shape?



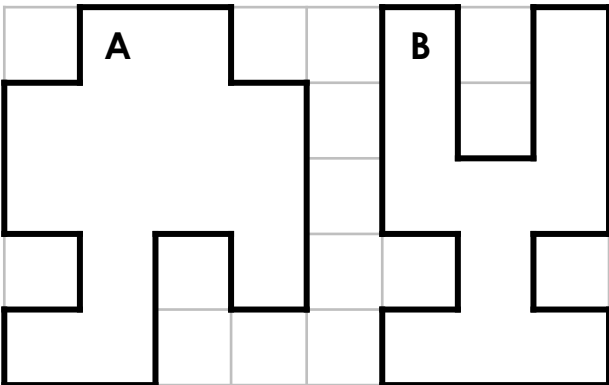
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8a. Which shape has the longest perimeter?



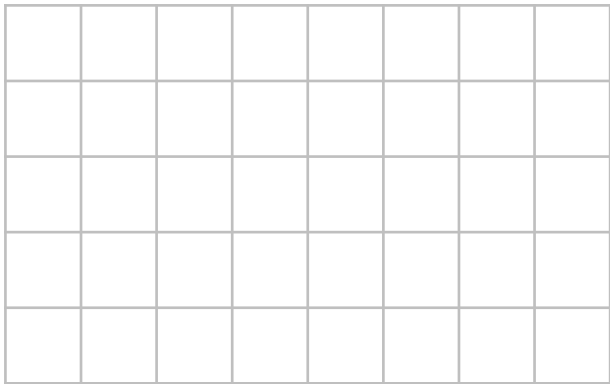
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8b. Which shape has the longest perimeter?



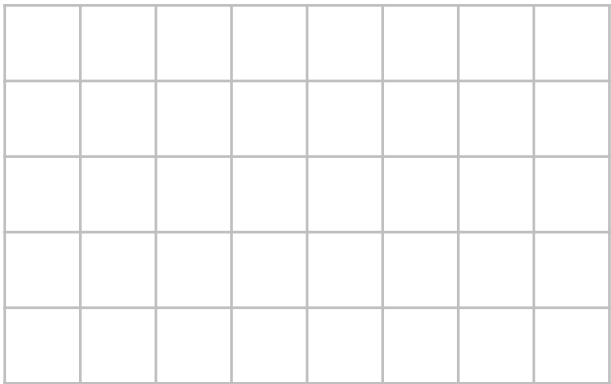
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9a. Draw a shape other than a rectangle with a perimeter of 18cm.



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9b. Draw a shape other than a rectangle with a perimeter of 20cm.



VF

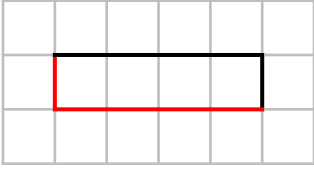
## Varied Fluency Perimeter on a Grid

### Developing

1a. **12cm**

2a. **B**

3a.



### Expected

4a. **18cm**

5a. **B**

6a. **Any shape with a 12cm perimeter.**

### Greater Depth

7a. **24cm**

8a. **B**

9a. **Any shape other than a rectangle with an 18cm perimeter.**

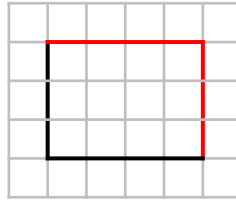
## Varied Fluency Perimeter on a Grid

### Developing

1b. **14cm**

2b. **A**

3b.



### Expected

4b. **22cm**

5b. **A**

6b. **Any shape with a 16cm perimeter.**

### Greater Depth

7b. **28cm**

8b. **B**

9b. **Any shape other than a rectangle with a 20cm perimeter.**