

## Reasoning and Problem Solving Perimeter on a Grid

### Developing

- 1a. B has a perimeter of 12cm. A and C have a perimeter of 10cm.
- 2a. Steven has counted the number of inside squares touching the lines. The perimeter is 18cm.
- 3a. Any rectangle with a perimeter of 10cm.

### Expected

- 4a. D has a perimeter of 10cm. The other shapes have a perimeter of 8cm.
- 5a. Jack has counted the squares inside the shape instead of calculating the distance around the shape. The perimeter is 16cm.
- 6a. Any rectilinear shape with a perimeter of 16cm.

### Greater Depth

- 7a. C has a perimeter of 10cm. The other shapes have a perimeter of 12cm.
- 8a. Imran has counted all the outside squares touching the line. The perimeter of the shape is 20cm.
- 9a. Any rectilinear shape with a perimeter of 16cm.

## Reasoning and Problem Solving Perimeter on a Grid

### Developing

- 1b. C has a perimeter of 10cm. A and B have a perimeter of 12cm.
- 2b. Fay has counted the squares inside the shape instead of calculating the distance around the shape. The perimeter is 14cm.
- 3b. Any rectangle with a perimeter of 6cm.

### Expected

- 4b. C has a perimeter of 12cm. The other shapes have a perimeter of 10cm.
- 5b. Alice has counted all the outside squares touching the line. The perimeter is 16cm.
- 6b. Any rectilinear shape with a perimeter of 14cm.

### Greater Depth

- 7b. A has a perimeter of 10cm. The other shapes have a perimeter of 12cm.
- 8b. Bella has counted the area within the shape instead of calculating the distance around the shape. The perimeter of the shape is 28cm.
- 9b. Any rectilinear shape with a perimeter of 20cm.