



# Unit 15

## Strengthen activities

**MISCONCEPTION:** Children may think translation instructions (for example, left 5) refer to the distance between the original shape and the translated image, rather than the distance between each corresponding vertex on the translated image.

### Answers

Assessment checkpoint:

Answers vary.

**MISCONCEPTION:** Children may simply transfer the shape to the other side of the mirror line, rather than reflecting it.

### Answers

Assessment checkpoint:

Children draw reflections correctly. See Practice Book answers for example.

**MISCONCEPTION:** Children may default to counting methods because they do not know what to add to or subtract from the coordinate.

### Answers

Assessment checkpoint:

Children translate accurately. See Practice Book answers for example

## Deepen activities

### Answers

#### Activity 1

Answers will vary. Ensure the shape is irregular and that the reflected shape is equidistant from and perpendicular to the mirror line.

#### Activity 2

Answers will vary depending on where the mirror line is drawn. A possible solution is:

The triangle is reflected once in a mirror line that is drawn at  $y = 4$ . It is then translated left 3 and up 1.

#### Activity 3

Answers will vary.