

# Unit 14

## Strengthen activities

**MISCONCEPTION:** Children may not realise that to be regular, a polygon must meet both of the following criteria: same size angles and same side lengths.

### Answers

Assessment checkpoint:

In their own words, children acknowledge that a shape is irregular if the sides are not all the same length or if the angles are not all the same.

**MISCONCEPTION:** Children may sometimes not recognise perpendicular lines when they are not oriented horizontally or vertically. They may not recognise that two lines can be perpendicular even if they do not touch or cross.

### Answers

Assessment checkpoint:

Children drew perpendicular lines remembering they meet at a right angle.

**MISCONCEPTION:** Children may think that parallel lines must be exactly the same length. They may fail to recognise that there can be more than two lines parallel to one another.

### Answers

Assessment checkpoint:

Answers vary.

## Deepen activities

### Answers

#### Activity 1

Answers will vary. Ensure shapes drawn satisfy the rules for each question.

#### Activity 2

Ensure that the sides of each shape are 3 cm long and that the internal angles within each shape are all the same.

Shapes could include:

- equilateral triangle
- square
- regular pentagon
- regular hexagon

#### Activity 3

Answers will vary. Ensure that the diagonals of the quadrilaterals drawn cross at right angles. Possible shapes include:

- square
- kite
- rhombus