Unit 13

Strengthen activities

MISCONCEPTION: **When using a protractor, children may incorrectly line it up or look at the wrong scale.**

Answers

Assessment checkpoint:

Angles clockwise from top left: 77°, 132°, 111°,116°, 104° (total 540°);

66°, 230°, 66°, 112°, 134°, 112° (total 720°)

MISCONCEPTION: **Children may try to use a protractor to measure all the angles, rather than calculating using known angle rules.**

Answers

Assessment checkpoint:

$a = 90°$ $b = 260°$

$x = 40°$ $y = 65°$

Known facts: angles on a straight line equal 180°.

Angles around a point equals 360°. Internal angles in a triangle add up to 180°.

MISCONCEPTION: **Children may draw the correct number of faces for the net of a cube, but may have faces that overlap or edges that do not meet when the net is folded.**

Answers

Assessment checkpoint:

None of the nets are for a cube.

Deepen activities

Answers

Activity 1

a) It is a right-angled isosceles triangle, so the internal angles are 90°, 45° and 45°.

b) Answers will vary. Ensure children use what they know about angles to solve, rather than using a protractor.

Activity 2

a) Quadrilaterals will vary. Ensure that they are drawn accurately and satisfy all the given rules.

b) Answers will vary.

Activity 3

Answers will vary. Ensure children's questions are possible to solve using only known angle facts, and not a protractor.