

# Geometry, Measures & Statistics

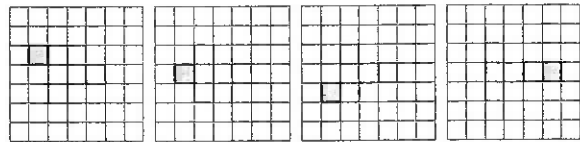
## Pages 4 and 5 — 3D Shapes

1)

It has ten faces. Two of the faces are octagons. The rest of the faces are rectangles.	Cylinder
It has four faces. All the faces are identical triangles.	Octagonal prism
It has six faces. All the faces are rectangles.	Triangular-based pyramid
It has two identical circular faces.	Cuboid

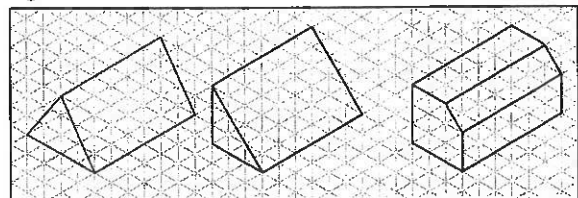
(2 marks if all lines are correct, otherwise 1 mark if at least one line is correct — not including octagonal prism)

- 2) 10 vertices (1 mark)
- 3) Square-based pyramid (1 mark)  
8 edges (1 mark)
- 4) Any of the options below:



(1 mark)

- 5) 9 faces (1 mark)
- 6) E.g.



(1 mark for each correct prism — not including the one already drawn)

## Pages 6 to 8 — Angles

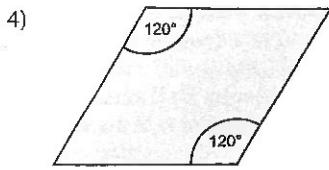
- 1) B, C, A (1 mark)
- 2) Anticlockwise (1 mark)  
270° (1 mark)

3)

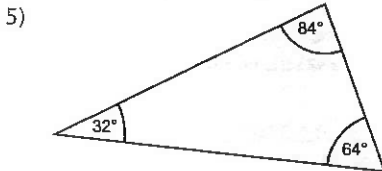
40°		obtuse angle
90°		acute angle
151°		right angle
200°		reflex angle

(2 marks if all lines are correct, otherwise 1 mark if at least one line is correct — not including 90°)

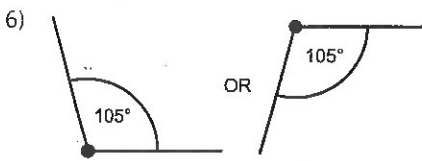
# Geometry, Measures & Statistics



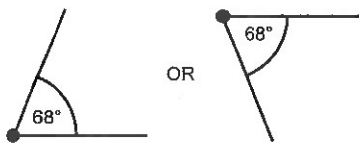
(1 mark — allow angles between 118° and 122°)



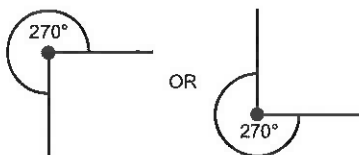
(2 marks if all three angles are correct, otherwise 1 mark if at least one angle is correct — allow 2° above or below the angles shown)



(1 mark — allow angles between 103° and 107°)



(1 mark — allow angles between 66° and 70°)



(1 mark — allow angles between 268° and 272°)

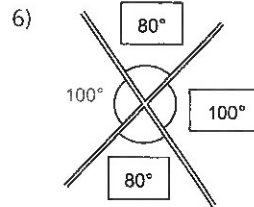
- 7) See first diagram on the page  
(1 mark if the angle is drawn correctly — allow 2° above or below 30°. 1 mark if both lines are the correct length — allow 2 mm above or below 5 cm.)  
See second diagram on the page  
(3 marks if the diagram is drawn completely correctly. Otherwise 2 marks if at least two sides and one angle are drawn correctly, or 1 mark if either one side or one angle is drawn correctly. Accept answers that are within 2 mm or 2° of the given length or angle.)

8) C (1 mark)

## Pages 9 to 11 — Angle Calculations

- 285°
- E.g. Angles in a triangle add up to 180°, but  $60^\circ + 70^\circ + 80^\circ = 210^\circ$ . (1 mark)
- 18°  
( $90^\circ - 72^\circ$ )  
(2 marks if the answer is correct. 1 mark if the answer is wrong but they've attempted to subtract 72° from 90°.)
- 85°  
( $180^\circ - 40^\circ - 55^\circ$ )  
(2 marks if the answer is correct. 1 mark if the answer is wrong but they've attempted to subtract 40° and 55° from 180°.)

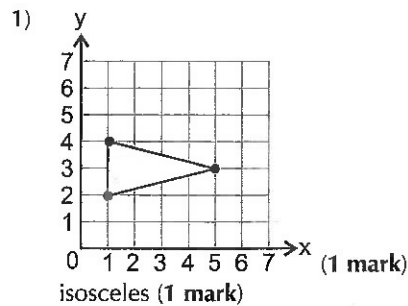
- 5) 37°  
( $90^\circ - 32^\circ - 21^\circ$ )  
(2 marks if the answer is correct. 1 mark if the answer is wrong but they've attempted to subtract 32° and 21° from 90°.)



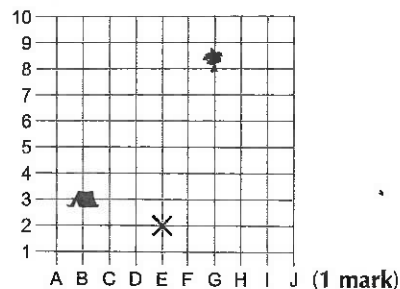
(2 marks if all the angles are correct, otherwise 1 mark if at least one of the angles is correct)

- 7) 60°  
( $360^\circ - 90^\circ - 120^\circ - 90^\circ$ )  
(2 marks if the answer is correct. 1 mark if the answer is wrong but they've attempted to subtract 120° and two right angles from 360°.)
- 8) FALSE, TRUE, TRUE, FALSE  
(2 marks if all four answers are correct, otherwise 1 mark if at least one answer is correct)
- 9) 40°  
( $180^\circ - 140^\circ$ )  
(2 marks if the answer is correct. 1 mark if the answer is wrong but they've attempted to subtract 140° from 180°.)
- 10)  $x = 67^\circ$  and  $y = 113^\circ$   
( $90^\circ - 23^\circ$  and  $180^\circ - 67^\circ$ )  
(3 marks if both answers are correct. 2 marks if only one answer is correct but they've used a sensible method for both angles. 1 mark if both answers are wrong but they've used a sensible method to attempt to find one angle.)

## Pages 12 and 13 — Coordinates



- 2) (4, 1) (1 mark)
- 3) 5 squares east and 5 squares north (1 mark)



- 4) C, A, E, G  
(2 marks if all four answers are correct, otherwise 1 mark if at least one answer is correct)
- 5) Coordinates of P: (2, 8) (1 mark)  
Coordinates of Q: (8, 4) (1 mark)

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- 6) Coordinates of A: (4, 0)  
Coordinates of B: (8, 3)  
Coordinates of C: (1, 9)

(2 marks if all coordinates are correct, otherwise  
1 mark if at least one is correct)

5)