

# KS3 – Shapes – Answers

## Section A – Properties of 2D Shapes

Q1

- a) Triangle
- b) Square
- c) Trapezium
- d) Hexagon
- e) Octagon

Q2

- a) 5
- b) 7
- c) 2 pairs
- d) 4
- e) 5

Q3

- a) Equilateral triangle
- b) Isosceles triangle
- c) Scalene triangle
- d) Right-angled triangle

Q4

- a) Rhombus
- b) Parallelogram
- c) Rectangle
- d) Kite

Q5

- a) True
- b) False
- c) True
- d) True

Q6

- a) Rhombus — all four sides are equal.

- b) Parallelogram — both pairs of opposite sides are parallel.
- c) Isosceles triangle — two sides are equal.

Q7

- a) Square
- b) Rhombus
- c) Equilateral triangle
- d) Decagon

## Section B – Properties of 3D Shapes

Q8

- a) Face
- b) Edge
- c) Vertex
- d) Vertices

Q9

- a) Cube
- b) Cuboid
- c) Cylinder
- d) Cone
- e) Sphere

Q10

- a) Cube: 6 faces, 12 edges, 8 vertices.
- b) Cuboid: 6 faces, 12 edges, 8 vertices.
- c) Triangular prism: 5 faces, 9 edges, 6 vertices.
- d) Square-based pyramid: 5 faces, 8 edges, 5 vertices.

Q11

- a) Triangles
- b) 3
- c) Square
- d) 4

Q12

- a) Cube
- b) Triangular prism
- c) Cylinder
- d) Square-based pyramid

Q13

- a) Triangular prism
- b) Square-based pyramid
- c) Cone
- d) Cylinder

## Section C – Nets

Q14

- a) A flat 2D arrangement of faces that can be folded to make a 3D shape.
- b) 6 squares
- c) 2 congruent triangles and 3 rectangles.
- d) 1 square and 4 triangles.

Q15

- a) Cube
- b) Cuboid
- c) Triangular prism
- d) Square-based pyramid

Q16

- a) Yes
- b) Yes
- c) No — it needs 4 triangular side faces.
- d) Yes

Q17

- a) No
- b) Triangular prism
- c) Square-based pyramid

Q18

- a) Pentagonal prism
- b) 7 faces