Shapes Around Us

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. I have 5 faces, 6 corners and 9 edges. Which solid am I?

(a) A pentagonal prism **(b)** A hexagonal prism
(c) A pentagonal pyramid **(d)** A triangular prism

2. How many edges does a hexagonal pencil (a hexagonal prism) have?

(a) 16 **(b)** 20 **(c)** 19 **(d)** 18

3. The radius of a circle is 5 cm. What is its diameter?

(a) 10 cm **(b)** 5 cm **(c)** 12 cm **(d)** 20 cm

4. At 4 o'clock, what kind of angle do the hands of a clock make?

(a) An obtuse angle **(b)** A right angle
(c) An acute angle **(d)** No angle

5. How many faces does a cube have?

(a) 12 **(b)** 6 **(c)** 4 **(d)** 8

6. Gita rolls a die and 1 is on top. Which number is at the bottom?

(a) 6 **(b)** 4 **(c)** 2 **(d)** 3

7. For a triangular pyramid, what is faces + corners − edges?

(a) 3 **(b)** 0 **(c)** 2 **(d)** 1

8. A pyramid-shaped paperweight is shaped like which solid?

(a) A square pyramid **(b)** A hexagonal prism
(c) A triangular pyramid **(d)** A cube

Section B — Short answer — 8 × 2 = 16 marks

9. How many more edges than corners does a square pyramid have?

10. Write the number of faces, corners and edges of a sugar cube (a cube).

11. A well has a radius of 85 cm. What is its diameter?

12. What kind of angle do the clock hands make at 11 o’clock: acute, right or obtuse?

13. Which has more edges, a brick (a cuboid) or a hexagonal pencil (a hexagonal prism)? How many more?

14. Lata’s die shows 3 on top and 6 at the front. What numbers are at the bottom and the back?

15. A pyramid has a triangle as its base. How many corners does it have?

16. A coin has a diameter of 2 cm. What is its radius?

Section C — Word problems — 4 × 4 = 16 marks

17. Compare a hexagonal prism and a pentagonal pyramid. (a) Write the faces, corners and edges of each. (b) Which has more faces? (c) Work out faces + corners − edges for both. What do you notice?

18. Lata draws a circle with a compass opened to 4 cm. (a) What is the radius? (b) What is the diameter? (c) If Lata draws another circle with double the diameter, what is its radius?

19. Say whether the clock hands make an acute, right or obtuse angle at 4 o’clock, 2 o’clock, 9 o’clock and 7 o’clock.

20. Two dice show 4 and 6 on top. (a) What is on the bottom of each? (b) What is the total of all four numbers on the tops and bottoms?

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Answer key

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Q	Answer	Working
1	**(d) A triangular prism**	—
2	**(d) 18**	a hexagonal pencil (a hexagonal prism): 8 faces, 12 corners, 18 edges
3	**(a) 10 cm**	the diameter is double the radius
4	**(a) An obtuse angle**	less than a right angle is acute; more is obtuse
5	**(b) 6**	—
6	**(a) 6**	opposite faces of a die add up to 7
7	**(c) 2**	4 + 4 − 6 = 2; it is 2 for every one of these solids
8	**(a) A square pyramid**	—
9	**3**	8 edges − 5 corners
10	**6 faces, 8 corners, 12 edges**	—
11	**170 cm**	2 × 85
12	**Acute angle**	—
13	**A hexagonal pencil (a hexagonal prism), by 6**	a brick (a cuboid) 12, a hexagonal pencil (a hexagonal prism) 18
14	**bottom 4, back 1**	opposite faces add up to 7
15	**4**	a triangle base with 3 triangles meeting at the top
16	**1 cm**	half of 2
17	**(a) a hexagonal prism: 8, 12, 18; a pentagonal pyramid: 6, 6, 10; (b) a hexagonal prism; (c) 2 for both**	—
18	**(a) 4 cm; (b) 8 cm; (c) 8 cm**	the diameter is double the radius
19	**4: obtuse angle; 2: acute angle; 9: right angle; 7: obtuse angle**	right at 3 and 9; acute when the hands are close; obtuse when they are wider apart
20	**(a) 3 and 1; (b) 14**	each top and bottom pair adds up to 7