Toy Joy

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. An orange looks like which shape?
   (a) sphere **(b)** cube **(c)** cone **(d)** cuboid

2. A matchbox looks like which shape?
   (a) sphere **(b)** cylinder **(c)** cube **(d)** cuboid

3. Which shape can roll and also stand on a round face?
   (a) Cube **(b)** Sphere **(c)** Cylinder **(d)** Cuboid

4. Tara rolls a die and 3 is on top. Which number is on the bottom face?
   (a) 5 **(b)** 4 **(c)** 1 **(d)** 2

5. Which shape has no flat face?
   (a) Cylinder **(b)** Cube **(c)** Sphere **(d)** Cuboid

6. Ravi makes a tower. The cuboid is at the bottom, the cylinder is on it, and the sphere is on top. Which shape is on top?
   (a) Cube **(b)** Cuboid **(c)** Sphere **(d)** Cylinder

7. Two dice show 3 and 4 on top. What do the two bottom numbers add up to?
   (a) 5 **(b)** 9 **(c)** 7 **(d)** 8

8. Which of these can roll?
   (a) a candle **(b)** a brick **(c)** a lunch box **(d)** a book

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

9. Name the shape of a drum.

10. Name the shape of a ball.

11. Dev's die has 2 on the bottom face. Which number is on top?

12. I am a shape. I have no flat face, no edge and no corner. Who am I?

13. A cuboid is on top of a sphere, and the sphere is on top of a cone. Which shape is at the bottom?

14. Does an ice-cream cone have a flat face? Does it have a curved face?

15. Two dice show 4 and 4 on top. What is the sum of the numbers on their bottom faces?

16. Which of these can roll? globe, pipe, ice cube, orange.

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

17. Sort these by shape: birthday cap, tin of oil, pipe, candle, Rubik's cube, ice-cream cone.

18. Asha stacks four toys. From the bottom up they are: a cylinder, a cuboid, a cone, a cube. (a) Which toy is on top? (b) Which toy is just below the top? (c) Which is second from the bottom?

19. Three dice show 4, 4, 2 on top. Write the number on the bottom of each die, and add the bottom numbers.

20. Name the shapes of a brick and a Rubik's cube. Which of them can roll?

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Answer key

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Q	Answer	Working
1	**(a) sphere**	—
2	**(d) cuboid**	—
3	**(c) Cylinder**	—
4	**(b) 4**	opposite faces of a die add up to 7
5	**(c) Sphere**	—
6	**(c) Sphere**	—
7	**(c) 7**	(7 − 3) + (7 − 4)
8	**(a) a candle**	things with a curved face can roll; cubes and cuboids only slide
9	**cylinder**	—
10	**sphere**	—
11	**5**	opposite faces add up to 7
12	**Sphere**	—
13	**Cone**	—
14	**Flat face: yes; curved face: yes (it is a cone)**	—
15	**6**	3 + 3
16	**globe, pipe, orange**	things with a curved face can roll
17	**cube: Rubik’s cube; cylinder: tin of oil, pipe, candle; cone: birthday cap, ice-cream cone**	—
18	**(a) the cube; (b) the cone; (c) the cuboid**	—
19	**3, 3, 5; total 11**	each pair of opposite faces adds up to 7
20	**Brick: cuboid; Rubik’s cube: cube. Neither can roll.**	shapes with a curved face can roll