

GRADE 6 MATH Worksheet 1: Cambridge

Surface Area of 3D Shapes (6Gg.07)

Monday 5 October 2026

Section A: Knowledge and Comprehension (Questions 1–5)

1. Define surface area in your own words. (1 mark)
Answer: _____
2. A cube has a side length of 4 cm. Calculate the area of a single face of this cube. (1 mark)
Answer: _____ cm²
3. Using your answer from Question 2, calculate the total surface area of the cube. (1 mark)
Answer: _____ cm²
4. State the formula used to calculate the total surface area of a cuboid with length l , width w , and height h . (1 mark)
Answer: $SA =$ _____
5. A cube has a total surface area of 54 cm². What is the area of one of its faces? (1 mark)
Answer: _____ cm²

Section B: Application, Analysis, and Synthesis (Questions 6–10)

6. Calculate the total surface area of a cuboid measuring 5 cm in length, 3 cm in width, and 2 cm in height. (2 marks)
Answer: _____ cm²
7. A cuboid has dimensions 8 cm (length), 4 cm (width), and 3 cm (height). Calculate the area of its top and bottom faces combined. (2 marks)
Answer: _____ cm²
8. Working backwards: A cube has a total surface area of 96 cm². Calculate the length of one side of the cube. (2 marks)
Answer: _____ cm
9. A closed rectangular gift box measures 10 cm long, 5 cm wide, and 4 cm high. If wrapping paper costs 2 cents per cm², calculate the total cost to wrap the entire box. (2 marks)
Answer: \$ _____
10. Two identical cubes, each with a side length of 3 cm, are glued together side-by-side to form a new rectangular cuboid. Calculate the total surface area of this new combined shape. (2 marks)
Answer: _____ cm²