Area, Perimeter & Volume: Medium Practice Paper 5 Answers

Q#	Answer	Explanation
1	B	The patio is 9 × 6 = 54 m² and the flower bed is 2 × 2 = 4 m², so 54 − 4 = 50 m² is left.
2	C	Area of a triangle is half the base times the height: (24 × 5) ÷ 2 = 120 ÷ 2 = 60 cm².
3	C	Length is area divided by width: 156 ÷ 12 = 13 cm.
4	D	The perimeter is 2 × (22 + 9) = 2 × 31 = 62 cm.
5	D	Multiply the three measurements: 7 × 5 × 4 = 140 cm³.
6	D	Since 11 × 11 = 121, each side is 11 cm, so the perimeter is 4 × 11 = 44 cm.
7	C	The perimeter is 2 × (8 + 6) = 28 m, and 28 × £15 = £420. Fencing follows the perimeter, not the area.
8	D	The volume of a cube is edge × edge × edge, so 12 × 12 × 12 = 1,728 cm³.
9	B	The length and width together are half the perimeter: 54 ÷ 2 = 27 cm. So the width is 27 − 17 = 10 cm.
10	D	6 m is 600 cm, and 600 ÷ 30 = 20 slabs.
11	C	Area of a triangle is half the base times the height: (18 × 9) ÷ 2 = 162 ÷ 2 = 81 cm².
12	D	The base area is 8 × 7 = 56 cm², and the height is 448 ÷ 56 = 8 cm.
13	B	250 cm is 2.5 m, so the area is 3 × 2.5 = 7.5 m².
14	C	A regular hexagon has 6 equal sides, so the perimeter is 6 × 12 = 72 cm.
15	C	The side is the number that multiplies by itself to give 196, and 14 × 14 = 196, so each side is 14 cm.

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