Area, Perimeter & Volume: Medium Practice Paper 2 Answers

Q#	Answer	Explanation
1	C	The lawn is 8 × 5 = 40 m² and the flower bed is 3 × 2 = 6 m², so 40 − 6 = 34 m² is left.
2	C	Area of a triangle is half the base times the height: (12 × 7) ÷ 2 = 84 ÷ 2 = 42 cm².
3	B	Width is area divided by length: 96 ÷ 12 = 8 cm.
4	D	The perimeter is 2 × (17 + 6) = 2 × 23 = 46 cm.
5	D	Multiply the three measurements: 9 × 4 × 5 = 180 cm³.
6	D	Since 9 × 9 = 81, each side is 9 cm, so the perimeter is 4 × 9 = 36 cm.
7	D	The wall area is 4 × 3 = 12 m², and 12 × £6 = £72.
8	E	The volume of a cube is edge × edge × edge, so 7 × 7 × 7 = 343 cm³.
9	B	The length and width together are half the perimeter: 36 ÷ 2 = 18 cm. So the length is 18 − 7 = 11 cm.
10	C	3 m is 300 cm, and 300 ÷ 25 = 12 tiles.
11	B	Area of a triangle is half the base times the height: (9 × 6) ÷ 2 = 54 ÷ 2 = 27 cm².
12	C	Volume is base area × height, so the height is 120 ÷ 24 = 5 cm.
13	B	The rectangle's perimeter is 2 × (9 + 4) = 26 cm and the square's is 4 × 6 = 24 cm, so the difference is 2 cm. Interestingly both shapes have the same area of 36 cm².
14	C	A regular pentagon has 5 equal sides, so the perimeter is 5 × 9 = 45 cm.
15	C	Each side is 28 ÷ 4 = 7 cm, so the area is 7 × 7 = 49 cm².

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