Area, Perimeter & Volume: Medium Practice Paper 4 Answers

Q#	Answer	Explanation
1	C	The field is 10 × 6 = 60 m² and the pond is 4 × 3 = 12 m², so 60 − 12 = 48 m² is left.
2	B	Area of a triangle is half the base times the height: (16 × 5) ÷ 2 = 80 ÷ 2 = 40 cm².
3	C	Width is area divided by length: 132 ÷ 11 = 12 cm.
4	D	The perimeter is 2 × (18 + 12) = 2 × 30 = 60 cm.
5	D	Multiply the three measurements: 13 × 5 × 2 = 130 cm³.
6	D	Since 20 × 20 = 400, each side is 20 cm, so the perimeter is 4 × 20 = 80 cm.
7	B	The lawn area is 12 × 5 = 60 m², and 60 ÷ 20 = 3 boxes.
8	E	The volume of a cube is edge × edge × edge, so 9 × 9 × 9 = 729 cm³.
9	B	The length and width together are half the perimeter: 46 ÷ 2 = 23 cm. So the length is 23 − 8 = 15 cm.
10	C	The cubes fit 4 along, 3 across and 2 high, so 4 × 3 × 2 = 24 cubes.
11	B	Area of a triangle is half the base times the height: (11 × 4) ÷ 2 = 44 ÷ 2 = 22 cm².
12	C	The base area is 7 × 5 = 35 cm², and the height is 210 ÷ 35 = 6 cm.
13	A	80 cm is 0.8 m, so the area is 1.5 × 0.8 = 1.2 m².
14	C	An equilateral triangle has 3 equal sides, so the perimeter is 3 × 14 = 42 cm.
15	C	The side is the number that multiplies by itself to give 169, and 13 × 13 = 169, so each side is 13 cm.

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