Area, Perimeter & Volume: Medium Practice Paper 3 Answers

Q#	Answer	Explanation
1	D	The rectangle is $7 \times 4 = 28$ cm² and the square is $3 \times 3 = 9$ cm². Adding them gives $28 + 9 = 37$ cm².
2	C	Area of a triangle is half the base times the height: $(20 \times 7) \div 2 = 140 \div 2 = 70$ cm².
3	C	Length is area divided by width: $108 \div 9 = 12$ cm.
4	D	The perimeter is $2 \times (25 + 15) = 2 \times 40 = 80$ cm.
5	D	Multiply the three measurements: $11 \times 3 \times 4 = 132$ cm³.
6	D	Since $15 \times 15 = 225$, each side is 15 cm, so the perimeter is $4 \times 15 = 60$ cm.
7	D	The room area is $6 \times 5 = 30$ m², and $30 \times £12 = £360$.
8	E	The volume of a cube is edge × edge × edge, so $8 \times 8 \times 8 = 512$ cm³.
9	A	The length and width together are half the perimeter: $50 \div 2 = 25$ cm. So the width is $25 - 15 = 10$ cm.
10	D	4 m is 8 tiles long and 3 m is 6 tiles wide, so $8 \times 6 = 48$ tiles are needed.
11	C	Area of a triangle is half the base times the height: $(15 \times 8) \div 2 = 120 \div 2 = 60$ cm².
12	C	The base area is $7 \times 6 = 42$ cm², and the height is $336 \div 42 = 8$ cm.
13	B	The sides are 2.5 m and 2 m, so the area is $2.5 \times 2 = 5$ m².
14	C	A regular octagon has 8 equal sides, so the perimeter is $8 \times 6 = 48$ cm.
15	C	Each side is $44 \div 4 = 11$ cm, so the area is $11 \times 11 = 121$ cm².

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