Area, Perimeter & Volume: Medium Practice Paper 3

Q1. An L-shape is made by joining a rectangle 7 cm by 4 cm to a square of side 3 cm. What is the total area?

A. 19 cm² B. 28 cm² C. 34 cm² D. 37 cm² E. 40 cm²

Q2. A triangle has a base of 20 cm and a height of 7 cm. What is its area?

A. 27 cm² B. 54 cm² C. 70 cm² D. 140 cm² E. 280 cm²

Q3. A rectangle has an area of 108 cm² and a width of 9 cm. What is its length?

A. 9 cm B. 10 cm C. 12 cm D. 13 cm E. 99 cm

Q4. A rectangle measures 25 cm by 15 cm. What is its perimeter?

A. 40 cm B. 50 cm C. 70 cm D. 80 cm E. 375 cm

Q5. A cuboid measures 11 cm by 3 cm by 4 cm. What is its volume?

A. 18 cm³ B. 33 cm³ C. 44 cm³ D. 132 cm³ E. 144 cm³

Q6. A square has an area of 225 cm². What is its perimeter?

A. 15 cm B. 30 cm C. 45 cm D. 60 cm E. 900 cm

Q7. Carpet costs £12 per square metre. How much does it cost to carpet a room measuring 6 m by 5 m?

A. £132 B. £240 C. £300 D. £360 E. £420

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Q8. A cube has edges of 8 cm. What is its volume?

A. 24 cm^3 B. 64 cm^3 C. 192 cm^3 D. 384 cm^3 E. 512 cm^3

Q9. A rectangle has a perimeter of 50 cm and a length of 15 cm. What is its width?

A. 10 cm B. 12 cm C. 20 cm D. 25 cm E. 35 cm

Q10. How many square tiles of side 50 cm are needed to cover a floor measuring 4 m by 3 m?

A. 12 B. 24 C. 36 D. 48 E. 60

Q11. A triangle has a base of 15 cm and a height of 8 cm. What is its area?

A. 23 cm^2 B. 46 cm^2 C. 60 cm^2 D. 120 cm^2 E. 240 cm^2

Q12. A cuboid has a volume of 336 cm^3 and a base measuring 7 cm by 6 cm. What is its height?

A. 4 cm B. 6 cm C. 8 cm D. 10 cm E. 12 cm

Q13. A rectangle measures 250 cm by 200 cm. What is its area in square metres?

A. 4.5 m^2 B. 5 m^2 C. 50 m^2 D. 500 m^2 E. 5,000 m^2

Q14. A regular octagon has sides of 6 cm. What is its perimeter?

A. 36 cm B. 42 cm C. 48 cm D. 54 cm E. 64 cm

Q15. A square has a perimeter of 44 cm. What is its area?

A. 22 cm^2 B. 100 cm^2 C. 121 cm^2 D. 144 cm^2 E. 1,936 cm^2

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