Area, Perimeter & Volume: Medium Practice Paper 1

Q1. An L-shaped room is made by joining a rectangle 6 m by 4 m to a rectangle 3 m by 2 m. What is the total area?

A. 15 m² B. 24 m² C. 26 m² D. 30 m² E. 36 m²

Q2. A triangle has a base of 10 cm and a height of 6 cm. What is its area?

A. 16 cm² B. 30 cm² C. 32 cm² D. 60 cm² E. 120 cm²

Q3. A rectangle has an area of 84 cm² and a width of 7 cm. What is its length?

A. 7 cm B. 11 cm C. 12 cm D. 14 cm E. 77 cm

Q4. A rectangle has a length of 13 cm and a width of 9 cm. What is its perimeter?

A. 22 cm B. 31 cm C. 40 cm D. 44 cm E. 117 cm

Q5. A cuboid measures 12 cm by 5 cm by 4 cm. What is its volume?

A. 21 cm³ B. 60 cm³ C. 120 cm³ D. 240 cm³ E. 256 cm³

Q6. A square has an area of 144 cm². What is its perimeter?

A. 12 cm B. 24 cm C. 36 cm D. 48 cm E. 576 cm

Q7. Turf costs £8 per square metre. How much does it cost to turf a lawn measuring 5 m by 4 m?

A. £72 B. £144 C. £160 D. £180 E. £320

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Q8. A cube has edges of 10 cm. What is its volume?

A. 30 cm^3

B. 100 cm^3

C. 600 cm^3

D. 1,000 cm^3

E. 10,000 cm^3

Q9. A rectangle has a perimeter of 40 cm and a length of 12 cm. What is its width?

A. 4 cm B. 8 cm C. 14 cm D. 20 cm E. 28 cm

Q10. How many square tiles of side 20 cm are needed to cover a floor measuring 2 m by 1 m?

A. 10 B. 20 C. 40 D. 50 E. 100

Q11. A triangle has a base of 8 cm and a height of 5 cm. What is its area?

A. 13 cm^2 B. 20 cm^2 C. 26 cm^2 D. 40 cm^2 E. 80 cm^2

Q12. A cuboid has a volume of 60 cm^3 and a base measuring 5 cm by 3 cm. What is its height?

A. 2 cm B. 3 cm C. 4 cm D. 6 cm E. 12 cm

Q13. What is the difference between the area of a rectangle measuring 8 cm by 3 cm and one measuring 7 cm by 4 cm?

A. 0 cm^2 B. 2 cm^2 C. 4 cm^2 D. 6 cm^2 E. 8 cm^2

Q14. A regular hexagon has sides of 7 cm. What is its perimeter?

A. 28 cm B. 35 cm C. 42 cm D. 49 cm E. 56 cm

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Q15. A square has a perimeter of 32 cm. What is its area?

A. 16 cm^2 B. 36 cm^2 C. 64 cm^2 D. 128 cm^2 E. 256 cm^2

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