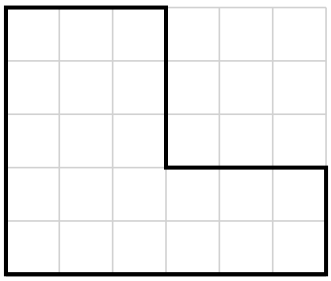
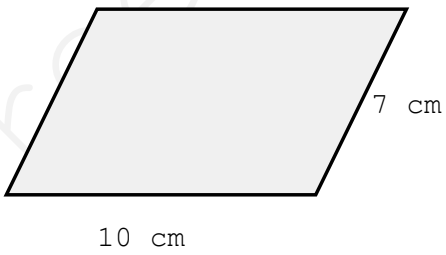
Area, Perimeter & Volume: Medium Practice Paper 6

Q1. Each square on this grid is 1 cm by 1 cm. What is the area of the shape?



A. 18 cm² *B.* 20 cm² *C.* 21 cm² *D.* 24 cm² *E.* 30 cm²

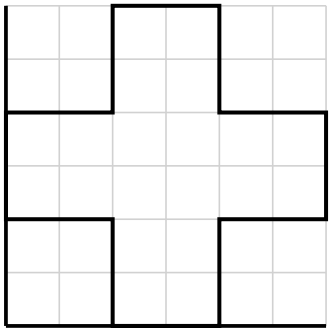
Q2. This parallelogram has a base of 10 cm and a slanting side of 7 cm. Its perpendicular height is 6 cm. What is its area?



A. 30 cm² *B.* 34 cm² *C.* 42 cm² *D.* 60 cm² *E.* 70 cm²

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Q3. Each square on this grid is 1 cm by 1 cm. What is the perimeter of this cross?



A. 20 cm *B.* 22 cm *C.* 24 cm *D.* 28 cm *E.* 36 cm

Q4. A rectangle has an area of 24 cm^2 and both of its sides are a whole number of centimetres. Which of these could NOT be its perimeter?

A. 20 cm *B.* 22 cm *C.* 28 cm *D.* 30 cm *E.* 50 cm

Q5. A solid is made by standing a cube of side 3 cm on top of a cuboid measuring 6 cm by 4 cm by 2 cm. What is the total volume of the solid?

A. 63 cm^3 *B.* 70 cm^3 *C.* 75 cm^3 *D.* 81 cm^3 *E.* 102 cm^3

Q6. Five rectangles all have a perimeter of 24 cm. Which one has the largest area?

A. 1 cm by 11 cm

B. 2 cm by 10 cm

C. 3 cm by 9 cm

D. 4 cm by 8 cm

E. 6 cm by 6 cm

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Q7. Each square on this grid is 1 cm by 1 cm. What is the area of this triangle?



A. 10 cm² *B.* 12 cm² *C.* 15 cm² *D.* 20 cm² *E.* 24 cm²

Q8. There are 10,000 cm² in 1 m². Which of these is the same as 40,000 cm²?

A. 0.4 m² *B.* 4 m² *C.* 40 m² *D.* 400 m² *E.* 4,000 m²

Q9. One tin of paint covers 12 m² of wall. How many tins are needed to paint a wall measuring 8 m by 4 m?

A. 2 *B.* 3 *C.* 4 *D.* 5 *E.* 6

Q10. Six identical squares of side 3 cm are joined in a single row to make a long rectangle. What is the perimeter of the rectangle?

A. 36 cm *B.* 42 cm *C.* 48 cm *D.* 54 cm *E.* 72 cm

Q11. A rectangle measures 14 cm by 6 cm. A triangle is drawn inside it with the same base and the same height as the rectangle. What is the area of the triangle?

A. 20 cm² *B.* 21 cm² *C.* 42 cm² *D.* 48 cm² *E.* 84 cm²

Q12. A cuboid measures 4 cm by 3 cm by 2 cm. What is the area of its largest face?

A. 6 cm² *B.* 8 cm² *C.* 12 cm² *D.* 24 cm² *E.* 26 cm²

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Q13. A square piece of paper with sides of 12 cm is folded exactly in half to make a rectangle. What is the perimeter of that rectangle?

A. 24 cm *B.* 30 cm *C.* 36 cm *D.* 48 cm *E.* 72 cm

Q14. The table shows the floor measurements of three rooms. Which room has the largest floor area?

Room	Length	Width
Kitchen	5 m	3 m
Lounge	4 m	4 m
Study	6 m	2 m

A. The kitchen

B. The lounge

C. The study

D. The kitchen and the study are equal

E. All three are the same

Q15. Which of these boxes holds the most?

A. 8 cm by 4 cm by 4 cm

B. 6 cm by 5 cm by 4 cm

C. 10 cm by 3 cm by 4 cm

D. 12 cm by 5 cm by 2 cm

E. 6 cm by 6 cm by 3 cm

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