



Class 9 Mathematics | Measuring Space: Perimeter And Area

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. A rectangle is 12 cm by 5 cm. Its perimeter is:

A. 34 cm B. 17 cm C. 60 cm D. 24 cm

2. A triangle of sides 13, 14, 15 cm has semiperimeter:

A. 21 cm B. 42 cm C. 7 cm D. 28 cm

3. The area of a triangle with sides 5, 12, 13 cm is:

A. 60 cm² B. 30 cm² C. 15 cm² D. 65 cm²

4. A parallelogram has base 9 cm and corresponding height 4 cm. Area is:

A. 13 cm² B. 36 cm² C. 18 cm² D. 26 cm²

5. A circle of radius 7 cm has circumference ($\pi=22/7$):

A. 44 cm B. 22 cm C. 154 cm D. 88 cm

6. A 60° arc in a circle of radius 9 cm has length:

A. 9π cm B. 18π cm C. 6π cm D. 3π cm

7. A 90° sector of radius 8 cm has area:

A. 16π cm² B. 32π cm² C. 64π cm² D. 8π cm²

8. A median divides a triangle of area 42 cm² into triangles each of area:

A. 28 cm² B. 42 cm² C. 21 cm² D. 14 cm²

9. A triangle of sides 7, 8, 9 cm has area:

A. 36 cm² B. $6\sqrt{5}$ cm² C. $12\sqrt{5}$ cm² D. 24 cm²

10. The ratio circumference/diameter for every circle is:

A. $1/\pi$ B. π C. 2π D. π^2

11. A cyclic quadrilateral has all four sides 5 cm. Its area is:

A. 25 cm² B. 20 cm² C. 50 cm² D. 10 cm²

12. A cyclic quadrilateral has sides 3, 4, 3, 4 cm. Its area is:

A. 24 cm² B. 12 cm² C. 14 cm² D. 7 cm²

13. A square and a rectangle 16 cm by 9 cm have equal areas. The square side is:

A. 7 cm B. 18 cm C. 12 cm D. 25 cm

14. If a circle's radius is doubled, its area becomes:

A. 4 times B. unchanged C. 2 times D. 8 times

15. A semicircle of radius r has total boundary length:

A. $\pi r + 2r$ B. $2\pi r$ C. πr D. πr^2

ANSWER KEY — check after completing all 15 questions

1.A 2.A 3.B 4.B 5.A 6.D 7.A 8.C 9.C 10.B 11.A 12.B 13.C 14.A 15.A

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

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