

CBSE - 9

MATHEMATICS (Real Number, Area of Triangles by Heron's Formula)

Time Allowed: 60 Minutes

Maximum Marks: 35

INSTRUCTIONS

General:

- (i) The question paper comprises of four sections, A, B, C and D. You are to attempt all the sections.
- (ii) All questions are compulsory.
- (iii) All questions of sections A, B, C and D are to be attempted separately.
- (iv) Question number 1 to 5 in section A are of one mark.
- (v) Question number 6 to 10 in section B are of two marks.
- (vi) Question number 11 to 15 in section C are of three marks.
- (vii) Question number 16 in section D are of five marks.

SECTION – A

1. Simplify: $(3 + \sqrt{3})(2 + \sqrt{2})$
2. Is zero a rational number? Can you write it in the form of $\frac{p}{q}$, where p and q are integers?
3. Show that 3.142678 is a rational number.
4. Find the perimeter of a triangle, if a , b , c are lengths of the sides of a triangle.
5. Find the area of an equilateral triangle whose side is '2a'.

SECTION – B

6. The perimeter of triangular park is 540 m and its sides are in the ratio 25:17:12. Find the sides of a triangular park.
7. The base of an isosceles triangle is $(3/2)$ times of the equal sides and it's perimeter is 42 cm. Find the length of its base (in cm).
8. A parallelogram and a triangle are on the same base and between the same parallels. If the sides of the triangle are 13 cm, 14 cm and 15 cm, and the parallelogram stands on the base 14 cm, then find the area of the parallelogram (in cm^2).
9. Express $\frac{7}{8}$ in the decimal form of long division method.
10. Rationalize the denominator in $\frac{2}{\sqrt{7} + \sqrt{5}}$.

SECTION – C

11. If each side of a triangle is doubled, find the percentage increase in the area.
12. Compute the area of trapezium.

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