

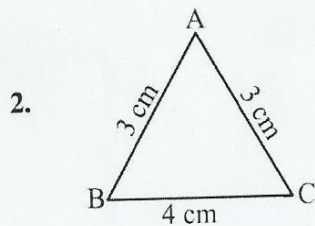
INTERNATIONAL INDIAN SCHOOL – TABUK
Formative Assessment – II – Mathematics – Class IX
HERON'S FORMULA

Name : _____

Date : _____

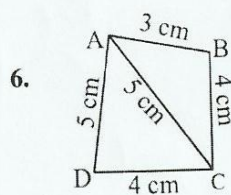
Multiple Choice Questions

1. The sides of a triangle are 3 cm, 4 cm and 5 cm. Its area is
A. 12 cm^2 B. 15 cm^2 C. 6 cm^2 D. 9 cm^2

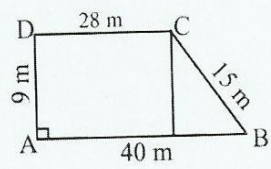


The area of $\triangle ABC$ is

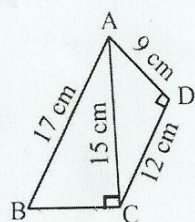
- A. 20 cm^2 B. $4\sqrt{5} \text{ cm}^2$ C. $2\sqrt{5} \text{ cm}^2$ D. 10 cm^2
3. The area of a triangular sign board of sides 5 cm, 12 cm and 13 cm is
A. $\frac{65}{2} \text{ cm}^2$ B. 30 cm^2 C. 60 cm^2 D. 12 cm^2
4. The side of a triangle are in the ratio of 25 : 14 : 12 and its perimeter is 510 m. The greatest side of the triangle is
A. 120 m B. 170 m C. 250 m D. 270 m
5. The perimeter of a right triangle is 60 cm and its hypotenuse is 26 cm. The other two sides of the triangle are
A. 24 cm, 10 cm B. 25 cm, 9 cm C. 20 cm, 14 cm D. 26 cm, 8 cm



The area of quadrilateral ABCD in the adjoining figure is

- A. 15.2 cm^2 B. 14.8 cm^2 C. 15 cm^2 D. 16.4 cm^2
7. 
- The area of trapezium in the adjoining figure is
- A. 286 m^2 B. 306 m^2 C. 316 m^2 D. 296 m^2

8.

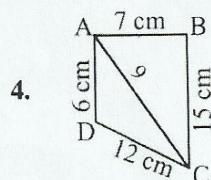


The area of quadrilateral ABCD in the adjoining figure is

- A. 57 cm^2 B. 95 cm^2 C. 102 cm^2 D. 114 cm^2

Short / Long Questions

- Find the area of a Δ whose sides are 35 cm, 45 cm and 50 cm
- An isosceles triangle has perimeter 30 cm and each of its equal sides is 12 cm. Find its area (Use $\sqrt{15} = 3.88$)
- The measure of one side of a right triangular field is 4.2 m. If the difference of the lengths of hypotenuse and the other is 14m, find the sides of the triangle and its area.



4. Find the area of the quadrilateral ABCD given in the figure alongside.

- The perimeter of a rhombus is 40 cm. If one of its diagonal is 16 cm, find the area of the rhombus.
- Two parallel sides of a trapezium are 60 cm and 77 cm and the other sides are 25 cm and 26 cm. Find the area of the trapezium.
- Find the area of a quadrilateral ABCD in which $AD = 24 \text{ cm}$, $\angle BAD = 90^\circ$ and B, C and D from an equilateral Δ of side 26 cm [use $\sqrt{3} = 1.73$]
- The height of an equilateral triangle measures 9 cm. Find its area, correct to two places of decimals [Take $\sqrt{3} = 1.73$]