

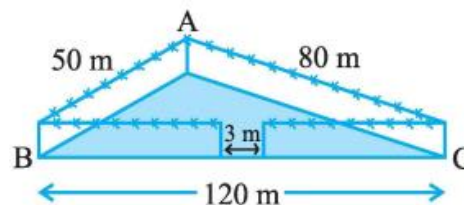
SUNRISE EDUCATION CENTRE

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Worksheet Class IX

Chapter-10 Heron's Formula

- Find the area of a triangle 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 $\sqrt{15} = 3.88$)
- A triangular park ABC has sides 120m, 80m and. A gardener Dhania has to put a fence all around it and also plant grass inside. How much area does she need to plant? Find the cost of fencing it with barbed wire at the rate of Rs 20 per metre leaving a space 3m wide for a gate on one side.



- A traffic signal board, indicating 'SCHOOL AHEAD', is an equilateral triangle with side 'a'. Find the area of the signal board, using Heron's formula. If its perimeter is 180 cm, what will be the area of the signal board?
- Find the area of a triangle, two sides of which are 8 cm and 11 cm and the perimeter is 32 cm.
- A triangle has sides 35 cm, 54 cm and 61 cm long. Find its area. Also find smallest of its altitudes.
- The sides of a triangular plot are in the ratio 3 : 5 : 7 and its perimeter is 300 m. Find its area.
- Sides of a triangle are in the ratio of 12 : 17 : 25 and its perimeter is 540cm. Find its area.
- The base of an isosceles triangle is 10 cm and one of its equal sides is 13 cm. Find its area.
- Find the area of a right triangle in which the sides containing the right angle measure 20 cm and 15 cm.
- The sides of a triangular field are 41 m, 40 m and 9 m. Find the number of rose beds that can be prepared in the field, if each rose bed, on an average needs 900 cm² space.
- Find the cost of laying grass in a triangular field of sides 50 m, 65m and 65 m at the rate of Rs 7 per m².
- The perimeter of an isosceles triangle is 32 cm. The ratio of the equal side to its base is 3 : 2. Find the area of the triangle.
- The perimeter of a triangular field is 420 m and its sides are in the ratio 6 : 7 : 8. Find the area of the triangular field.
- The perimeter of a triangle is 50 cm. One side of a triangle is 4 cm longer than the smaller side and the third side is 6 cm less than twice the smaller side. Find the area of the triangle.