

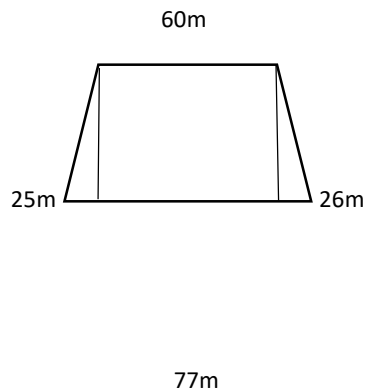
HERON'S FORMULA

Q1. In a triangle ABC, $AB = 15\text{cm}$, $BC = 13\text{cm}$, and $AC = 14\text{cm}$. Find the area of the triangle and hence the altitude of this triangle.

Q2. The perimeter of an isosceles triangle is 42cm and its base is $\frac{3}{2}$ times each of the equal side. Find the length of each side of the triangle, area of the triangle and the height of the triangle.

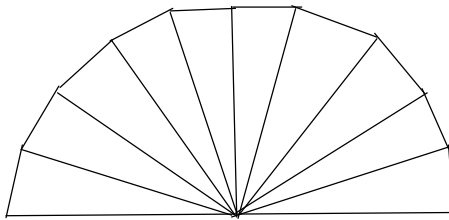
Q3. The sides of a quadrilateral field, taken in order are 26m , 27m , 7m , 24m respectively. The angle contained by the last two sides is a right angle. Find its area. (Try this figure by yourself).

Q4. Two parallel side of a trapezium are 60m and 77m and the other sides are 25m and 26m . Find the area of the trapezium.

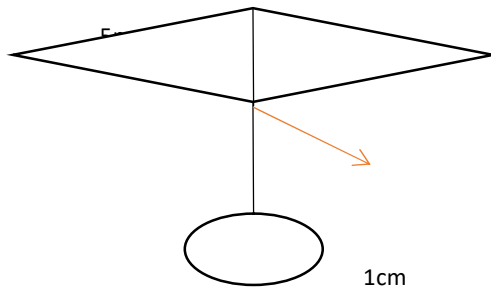


Q5. A rhombus sheet, whose perimeter is 32m and whose diagonal is 10m long, is painted on both the sides at the rate of Rs 5 per meter square. Find the cost of painting.

Q6. A hand fan is made by sticking 10 equal size triangular strips of two different types of paper as shown in the figure. The dimensions of equal strips are 25cm , 25cm and 14cm . Find the area of each type of paper to make the hand fan.



Q7. Find the area of the blades of the magnetic compass shown in the figure given below.



Q8. If the area of a hexagon is $24\sqrt{3}$ cm², find its perimeter.