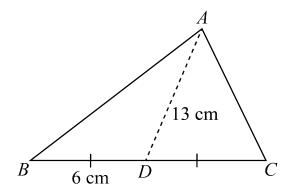
Problem of the Week Problem D

There are Two Sides

A *median* is a line segment drawn from the vertex of a triangle to the midpoint of the opposite side.

In $\triangle ABC$, a median is drawn from vertex A, meeting side BC at point D. The length of BD is 6 cm and the length of the median AD is 13 cm.



The area of $\triangle ABC$ is 72 cm². Determine the lengths of sides AB and AC.