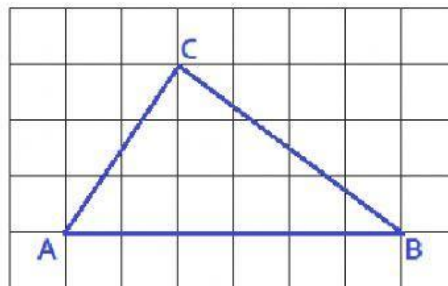


Area of Triangles

- I. Look at the triangle ABC drawn in the grid. Draw a red rectangle called ABDE around it so that point C will be part of side DE. Each side of the squares in the grid are 1 cm.

1. What is the area of rectangle ABDE? **cm.**
2. What is the area of triangle ABC? **cm.**
3. If **h** is the image that results from the translation of side BD, and **h** intersects the vertex C and is perpendicular to AB, what is the measurement of **h**?

cm.



- II. If the measurement of side AB is represented by $\overline{AB}$, and the measurement of line h is represented by $m(h)$, which expression do you use to calculate the area of triangle ABC? Click on the correct answer.

$$\frac{m(\overline{AB}) \times m(h)}{2}$$

$$\frac{m(\overline{AB}) - m(h)}{2}$$

$$\frac{m(\overline{AB}) + m(h)}{2}$$