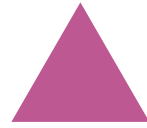


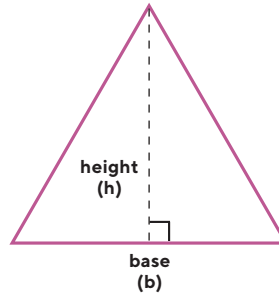


Geometry Detective #2

Area of a Triangle

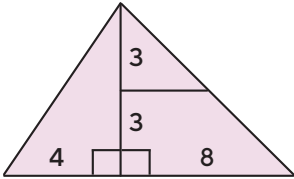


The **area of a triangle** is one-half the length of the base times the height. The **base** of a triangle can be any one of its sides. The **height** is the distance from a base to its opposite point, or vertex. A base must be perpendicular to the height.



Area of a triangle:
 $\frac{1}{2} \times \text{base} \times \text{height}$

DIRECTIONS: Use the formula for the area of a triangle as shown above to calculate the area for the following triangles in square units. Show your work in the right column.

<p>EXAMPLE:</p> 	<p>base = 4 + 8 = 12 height = 3 + 3 = 6 area = $\frac{1}{2} \times 12 \times 6$ = 36 units²</p>	