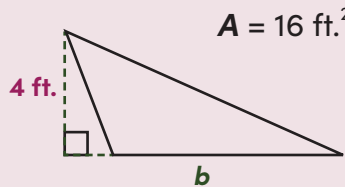


OBTUSE TRIANGLES: FIND THE MISSING BASE

To find the area of any triangle, use the formula $A = \frac{1}{2}bh$, where b is the base and h is the height. The height must be perpendicular to the base.

You can also use that formula to find a missing base if you know the area and the height.

Let's try an example! Find the missing base of the obtuse triangle below.



$$A = \frac{1}{2}bh$$

$$16 = \frac{1}{2} \cdot b \cdot 4$$

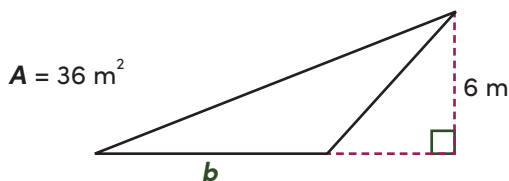
$$16 = 2b$$

$$8 = b$$

$$b = 8 \text{ ft.}$$

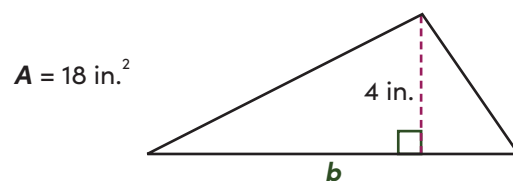
Directions: Find the missing base in each obtuse triangle.

1.



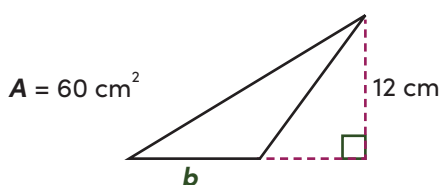
$$b = \underline{12 \text{ m}}$$

2.



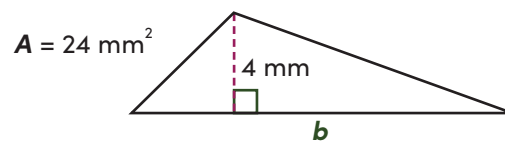
$$b = \underline{9 \text{ in.}}$$

3.



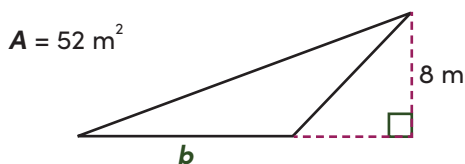
$$b = \underline{10 \text{ cm}}$$

4.



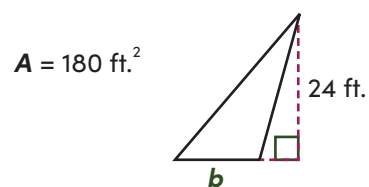
$$b = \underline{12 \text{ mm}}$$

5.



$$b = \underline{13 \text{ m}}$$

6.



$$b = \underline{15 \text{ ft.}}$$