

4.2 Area of Triangles Notes

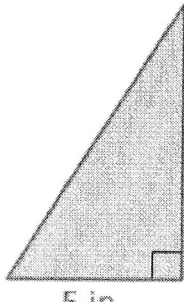
Area of a Triangle:

$$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$$

OR

$$\text{Area} = \frac{\text{base} \times \text{height}}{2}$$

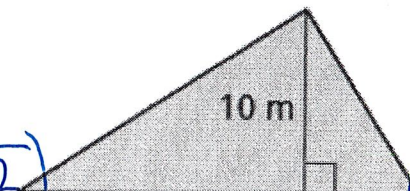
Find the area of each triangle. Be sure to show your formula, substitution, & answer with label



height
↓
8 in.

5 in.
↑
base

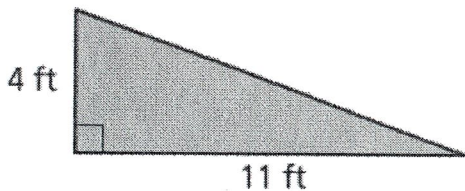
$A = bh \div 2$
 $A = 5 \cdot 8 \div 2$
 $A = 20 \text{ in.}^2$



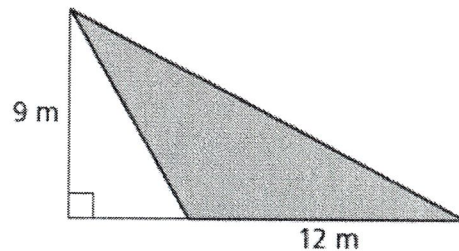
10 m

22 m

$A = bh \div 2$
 $A = 22 \cdot 10 \div 2$
 $A = 110 \text{ m}^2$



$A = bh \div 2$
 $A = 11 \cdot 4 \div 2$
 $A = 22 \text{ ft}^2$



$A = bh \div 2$
 $A = 12 \cdot 9 \div 2$
 $A = 54 \text{ m}^2$

The base and height of the red butterfly wing are two times greater than the base and height of the blue butterfly wing. How many times greater is the area of the red wing than the area of the blue wing?

blue wing:

$$A = bh \div 2$$

$$A = 2 \cdot 1 \div 2$$

$$A = 1 \text{ cm}^2$$

Red wing:

$$A = bh \div 2$$

$$A = 4 \cdot 2 \div 2$$

$$A = 4 \text{ cm}^2$$

Red \div blue

$$4 \div 1 =$$

4 times greater

