


Name: \_\_\_\_\_

# Area of a Triangle

To find the area of a triangle, use the formula **area =  $\frac{1}{2}$  x base x height** or  **$A = \frac{1}{2}$  x b x h**.

example:



4 cm  
70 mm

$A = \frac{1}{2} \times b \times h$

base = 70 mm (7 cm)

height = 4 cm

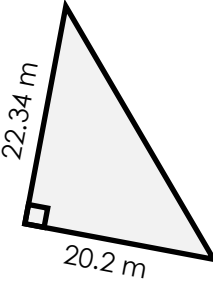
$A = \frac{1}{2} \times 7 \text{ cm} \times 4 \text{ cm}$

$A = \frac{1}{2} \times 28 \text{ cm}^2$

$A = 14 \text{ cm}^2$

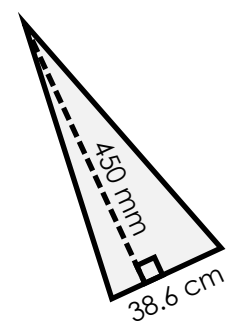
Find the area of each triangle. Some triangles have mixed units.

**a.**



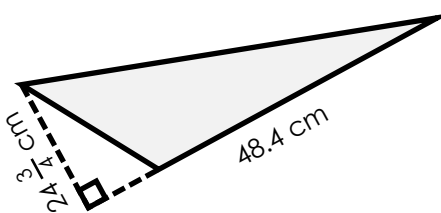
area = \_\_\_\_\_

**b.**



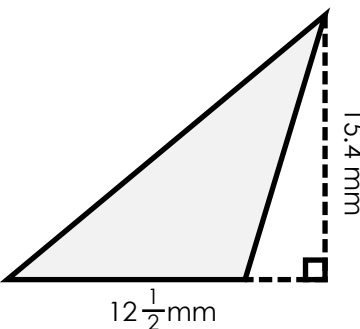
area = \_\_\_\_\_

**c.**



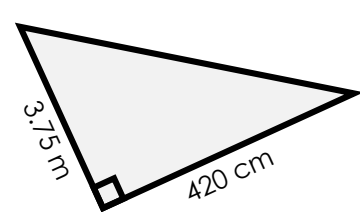
area = \_\_\_\_\_

**d.**



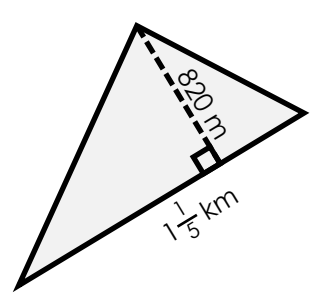
area = \_\_\_\_\_

**e.**



area = \_\_\_\_\_

**f.**



area = \_\_\_\_\_

Find the area of each triangle using the base and height measurements.

**g.**     **b** = 75.33 meters  
          **h** = 68 meters

area = \_\_\_\_\_

**h.**     **b** = 47.2 centimeters  
          **h** = 595 millimeters

area = \_\_\_\_\_

**i.**     **b** = .875 meters  
          **h** = 92 centimeters

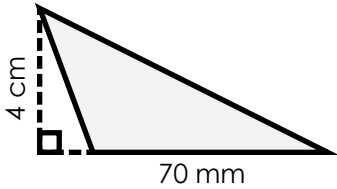
area = \_\_\_\_\_

# ANSWER KEY

## Area of a Triangle

To find the area of a triangle, use the formula **area** =  $\frac{1}{2} \times \text{base} \times \text{height}$  or **A** =  $\frac{1}{2} \times b \times h$ .

example:



$$A = \frac{1}{2} \times b \times h$$

$$\text{base} = 70 \text{ mm (7 cm)}$$

$$\text{height} = 4 \text{ cm}$$

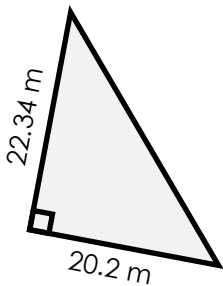
$$A = \frac{1}{2} \times 7 \text{ cm} \times 4 \text{ cm}$$

$$A = \frac{1}{2} \times 28 \text{ cm}^2$$

$$A = 14 \text{ cm}^2$$

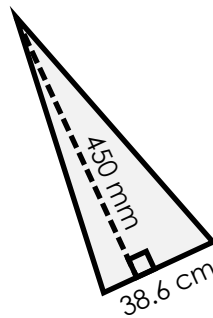
Find the area of each triangle. Some triangles have mixed units.

a.



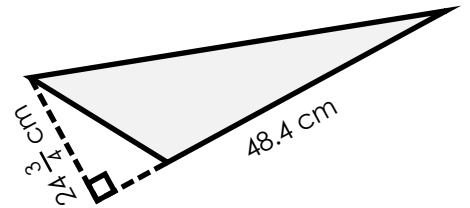
$$\text{area} = \underline{225.634 \text{ m}^2}$$

b.



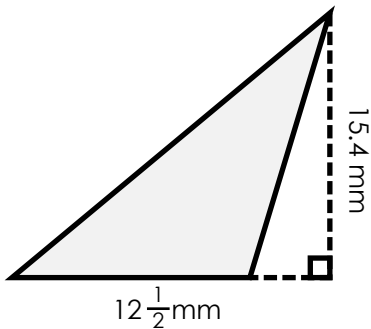
$$\text{area} = \underline{868.5 \text{ cm}^2 \text{ or } 86,850 \text{ mm}^2}$$

c.



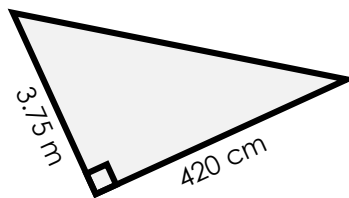
$$\text{area} = \underline{598.95 \text{ cm}^2}$$

d.



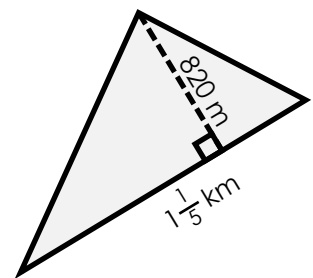
$$\text{area} = \underline{96.25 \text{ mm}^2}$$

e.



$$\text{area} = \underline{7.875 \text{ m}^2 \text{ or } 78,750 \text{ cm}^2}$$

f.



$$\text{area} = \underline{0.492 \text{ km}^2 \text{ or } 492,000 \text{ m}^2}$$

Find the area of each triangle using the base and height measurements.

g.  $b = 75.33 \text{ meters}$   
 $h = 68 \text{ meters}$

h.  $b = 47.2 \text{ centimeters}$   
 $h = 595 \text{ millimeters}$

i.  $b = .875 \text{ meters}$   
 $h = 92 \text{ centimeters}$

$$\text{area} = \underline{2,561.22 \text{ m}^2} \quad \text{area} = \underline{1,404.2 \text{ cm}^2 \text{ or } 140,420 \text{ mm}^2} \quad \text{area} = \underline{0.4025 \text{ m}^2 \text{ or } 4,025 \text{ cm}^2}$$