

Name: _____

Area of a Right Triangle

To find the area of a right triangle, use the formula $\frac{1}{2} \times \text{base} \times \text{height}$. This formula is often written as $\frac{1}{2} \times (b \times h) = A$.

The triangle pictured here has a base of 10 cm and a height of 8 cm.

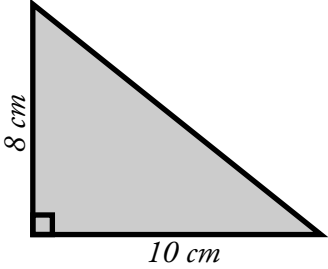
$$b = 10 \text{ cm}$$

$$h = 8 \text{ cm}$$

$$\frac{1}{2} \times 10 \text{ cm} \times 8 \text{ cm} = 40 \text{ cm}^2$$

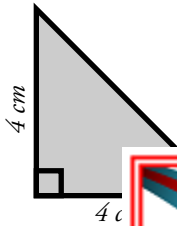
Note that the area's unit is written as cm^2 .

This is said as "square centimeters" or "centimeters squared".

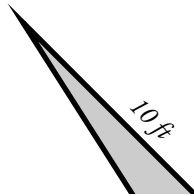


Find the area of each rectangle.

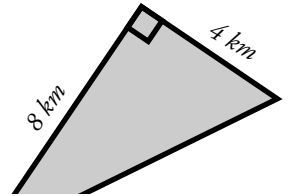
a.



b.



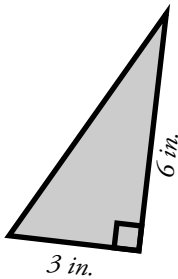
c.



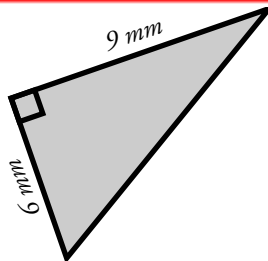
PREVIEW

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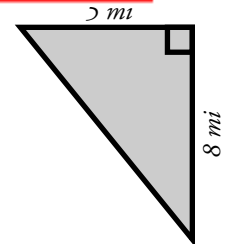
d.



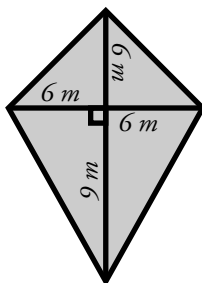
e.



f.



Challenge: Find the area of the polygon. Use the back if you need work space.



ANSWER KEY

Area of a Right Triangle

To find the area of a right triangle, use the formula $\frac{1}{2} \times \text{base} \times \text{height}$. This formula is often written as $\frac{1}{2} \times (b \times h) = A$.

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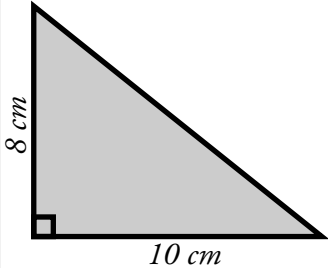
$$b = 10 \text{ cm}$$

$$h = 8 \text{ cm}$$

$$\frac{1}{2} \times 10 \text{ cm} \times 8 \text{ cm} = 40 \text{ cm}^2$$

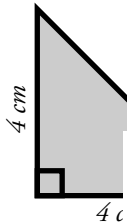
Note that the area's unit is written as cm^2 .

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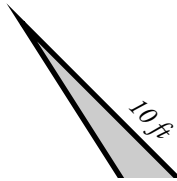


Find the area of each rectangle.

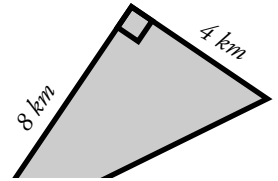
a.



b.



c.



8

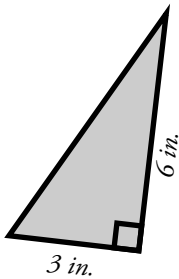


PREVIEW

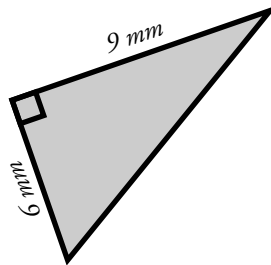
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2

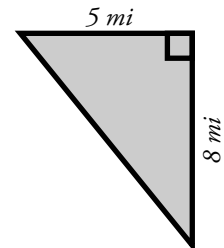
d.



e.



f.

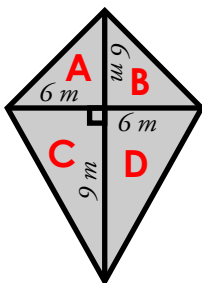


9 in.²

27 mm²

20 mi²

Challenge: Find the area of the polygon. Use the back if you need work space.



$$\text{area of A} = (6 \times 6) \times \frac{1}{2} = 18 \text{ m}^2$$

$$\text{area of B} = (6 \times 6) \times \frac{1}{2} = 18 \text{ m}^2$$

$$\text{area of C} = (9 \times 6) \times \frac{1}{2} = 27 \text{ m}^2$$

$$\text{area of D} = (9 \times 6) \times \frac{1}{2} = + 27 \text{ m}^2$$

90 m²