

Name: _____

Area of Rectangles & Triangles

Area of a Triangle

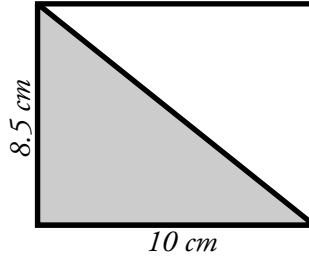
$$\frac{1}{2} \times (b \times h) = A$$

To find the area of a triangle, multiply $\frac{1}{2} \times$ **base** \times **height**.

Area of a Rectangle

$$l \times w = A$$

To find the area of a rectangle, multiply **length** \times **width**.



Area of the shaded triangle:

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

$$h = 8.5 \text{ cm}$$

$$\frac{1}{2} \times 10 \text{ cm} \times 8.5 \text{ cm} = 42.5 \text{ cm}^2$$

Area of the rectangle:

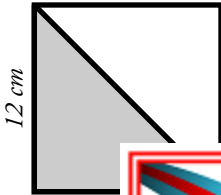
$$l = 10 \text{ cm}$$

$$w = 8.5 \text{ cm}$$

$$10 \text{ cm} \times 8.5 \text{ cm} = 85 \text{ cm}^2$$

Find the area of each rectangle and shaded triangle.

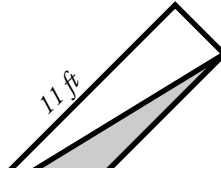
a.



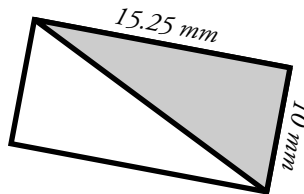
area of the square = _____

area of the triangle = _____

b.



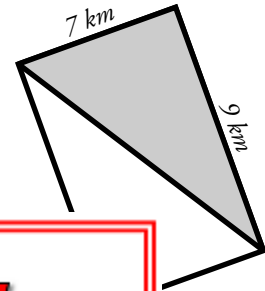
e.



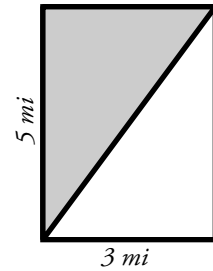
area of the rectangle = _____

area of the triangle = _____

c.



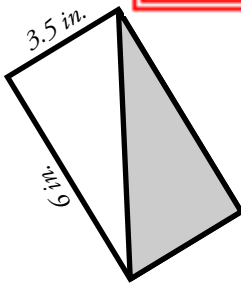
f.



area of the rectangle = _____

area of the triangle = _____

d.



area of the rectangle = _____

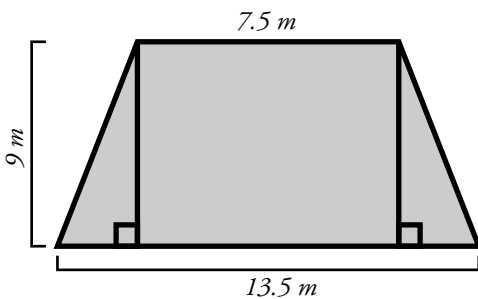
area of the triangle = _____



PREVIEW

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



ANSWER KEY

Area of Rectangles & Triangles

Area of a Triangle

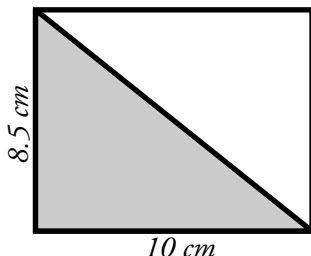
$$\frac{1}{2} \times (b \times h) = A$$

To find the area of a triangle, multiply $\frac{1}{2} \times$ **base** \times **height**.

Area of a Rectangle

$$l \times w = A$$

To find the area of a rectangle, multiply **length** \times **width**.



Area of the shaded triangle:

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

$$h = 8.5 \text{ cm}$$

$$\frac{1}{2} \times 10 \text{ cm} \times 8.5 \text{ cm} = 42.5 \text{ cm}^2$$

Area of the rectangle:

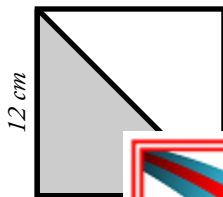
$$l = 10 \text{ cm}$$

$$w = 8.5 \text{ cm}$$

$$10 \text{ cm} \times 8.5 \text{ cm} = 85 \text{ cm}^2$$

Find the area of each rectangle and shaded triangle.

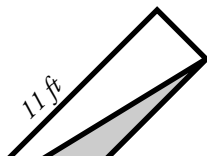
a.



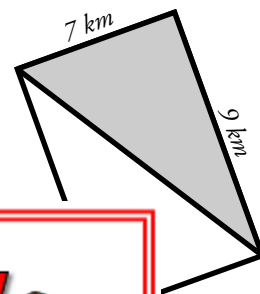
area of the square =

area of the triangle =

b.



c.





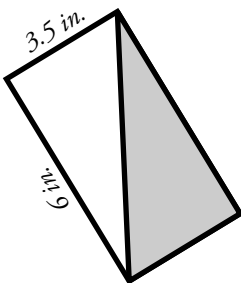
~ PREVIEW ~

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$$= \underline{63 \text{ km}^2}$$

$$= \underline{31.5 \text{ km}^2}$$

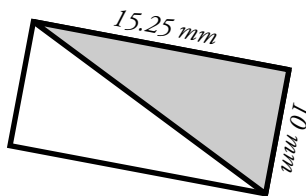
d.



area of the rectangle = 21 in.²

area of the triangle = 10.5 in.²

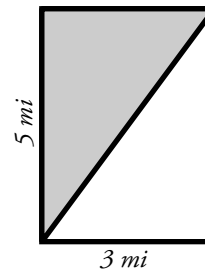
e.



area of the rectangle = 152.5 mm²

area of the triangle = 76.25 mm²

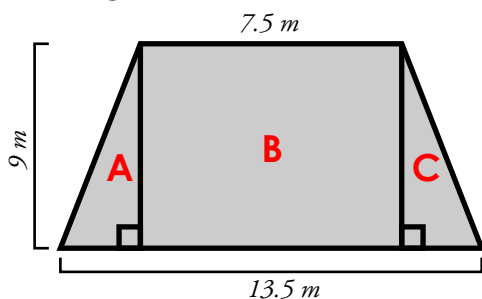
f.



area of the rectangle = 15 mi²

area of the triangle = 7.5 mi²

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



$$\text{area of } \triangle A = (9 \times 3) \times \frac{1}{2} = 13.5 \text{ m}^2$$

$$\text{area of } \square B = 9 \times 7.5 = 67.5 \text{ m}^2$$

$$\text{area of } \triangle C = (9 \times 3) \times \frac{1}{2} = +13.5 \text{ m}^2$$

$$\underline{94.5 \text{ m}^2}$$