

Name: _____

Area of Rectangles & Triangles

Area of a Triangle

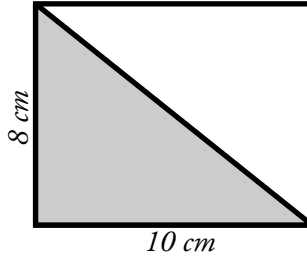
$$\frac{1}{2} \times (b \times h) = A$$

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:

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

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

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

Area of the rectangle:

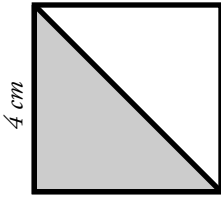
$$l = 10 \text{ cm}$$

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

$$10 \text{ cm} \times 8 \text{ cm} = 80 \text{ cm}^2$$

Find the area of each rectangle and shaded triangle.

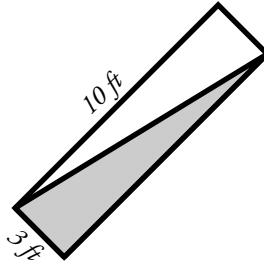
a.



area of the square = _____

area of the triangle = _____

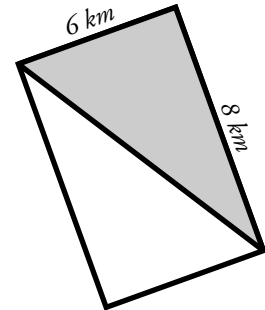
b.



area of the rectangle = _____

area of the triangle = _____

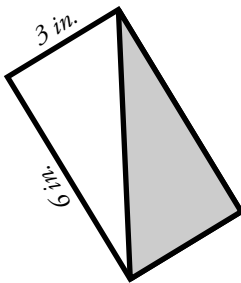
c.



area of the rectangle = _____

area of the triangle = _____

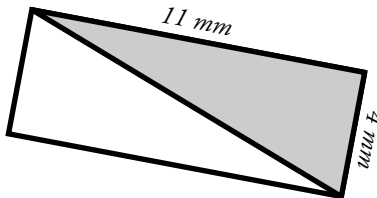
d.



area of the rectangle = _____

area of the triangle = _____

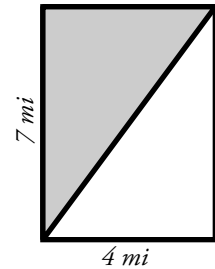
e.



area of the rectangle = _____

area of the triangle = _____

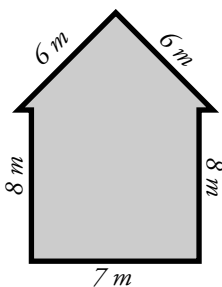
f.



area of the rectangle = _____

area of the triangle = _____

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

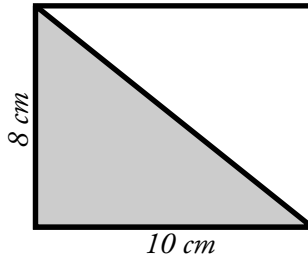
$$\frac{1}{2} \times (b \times h) = A$$

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:

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

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

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

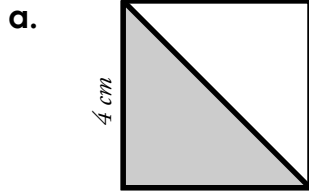
Area of the rectangle:

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

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

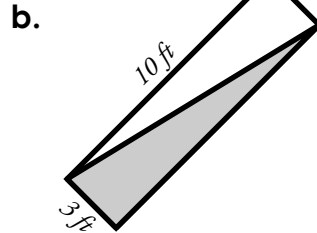
$$10 \text{ cm} \times 8 \text{ cm} = 80 \text{ cm}^2$$

Find the area of each rectangle and shaded triangle.



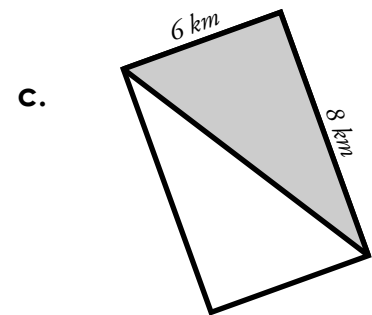
area of the square = 16 cm²

area of the triangle = 8 cm²



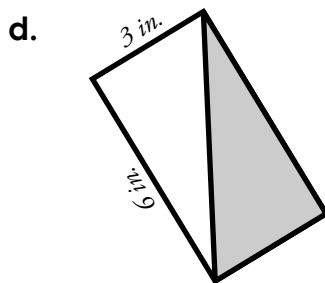
area of the rectangle = 30 ft²

area of the triangle = 15 ft²



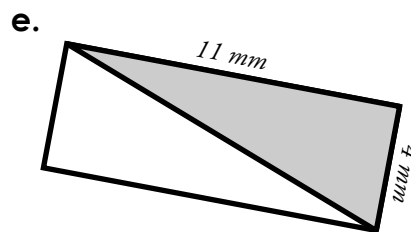
area of the rectangle = 48 km²

area of the triangle = 24 km²



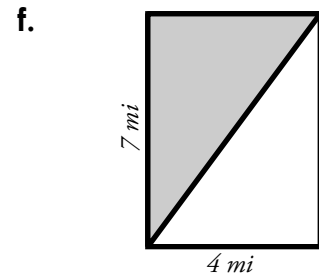
area of the rectangle = 18 in.²

area of the triangle = 9 in.²



area of the rectangle = 44 mm²

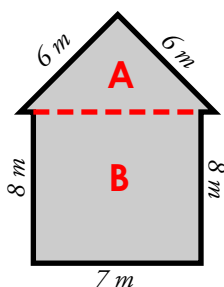
area of the triangle = 22 mm²



area of the rectangle = 28 mi²

area of the triangle = 14 mi²

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



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

$$\text{area of } \square B = 8 \times 7 = \underline{\quad + 56 \text{ m}^2 \quad}$$

$$\underline{\quad \quad \quad 74 \text{ m}^2 \quad}$$