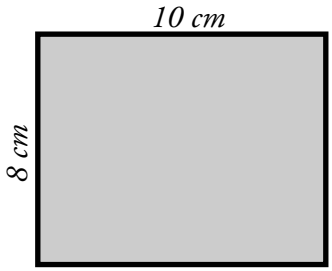
Name: _____

# Area of a Rectangle



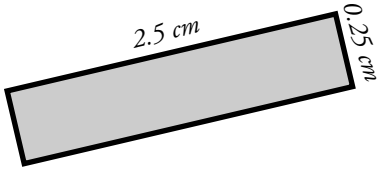

To find the area of a rectangle, use the formula **length x width = area**.
This formula is often written as $\boldsymbol{l} \times \boldsymbol{w} = \boldsymbol{A}$.

The rectangle pictured here has a length of 10 cm and a width of 8 cm.
$\boldsymbol{l}$ = 10 cm
$\boldsymbol{w}$ = 8 cm
10 cm x 8 cm = 80 $cm^2$

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.**

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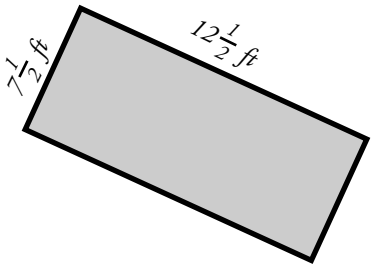
**b.**

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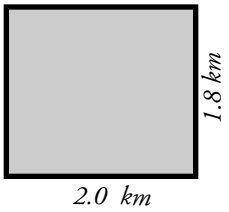
**c.**

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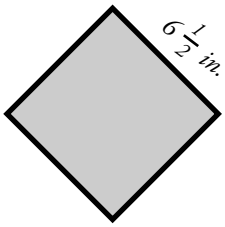
**d.**

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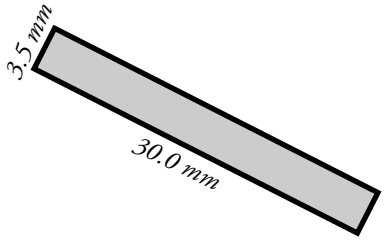
**e.**

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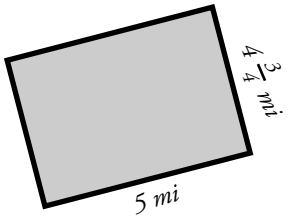
**f.**

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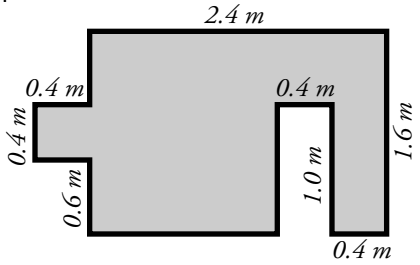
**Challenge:** Find the area of the polygon. All corners are 90°. Use the back if you need work space.

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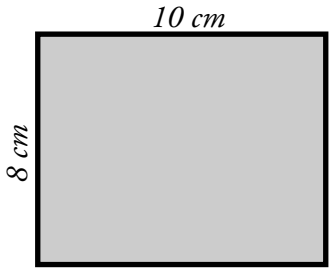
# ANSWER KEY

## Area of a Rectangle

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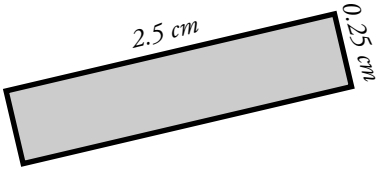
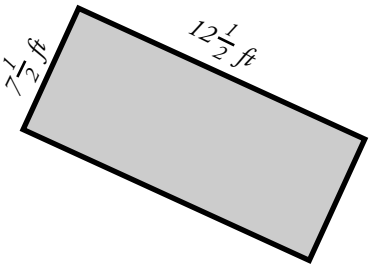
Find the area of each rectangle.

**a.**



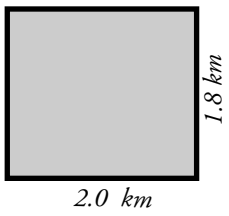

0.625 $cm^2$

**b.**



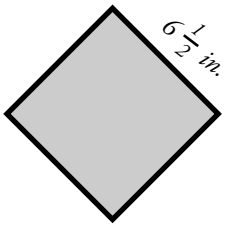

$93\frac{3}{4}$ $in.^2$

**c.**



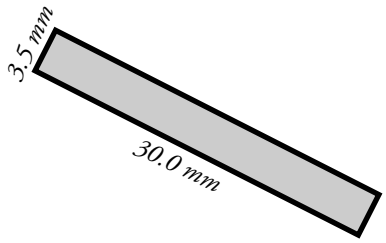

3.6 $km^2$

**d.**



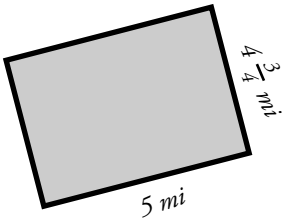

$42\frac{1}{4}$ $in.^2$

**e.**



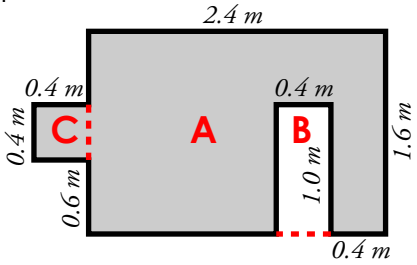

105 $mm^2$

**f.**




$23\frac{3}{4}$ $mi^2$

**Challenge:** Find the area of the polygon. All corners are 90°. Use the back if you need work space.




area of A = 2.4 x 1.6 = 3.84 $m^2$
area of B = 1.0 x 0.4 = - 0.40 $m^2$
3.44 $m^2$
area of C = 0.4 x 0.4 = +0.16 $m^2$
3.60 $m^2$