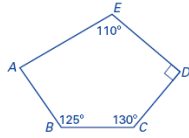


8.3 Areas of Squares and Rectangles

Goal: to be able to find the area of squares and rectangles
Warm Up

- Find the measure of $\angle A$.
- A regular polygon has 11 sides.
Find the sum of the measures of the interior angles.
- Find the measures of one interior angle of a regular polygon with 12 sides.
- What is the measure of each exterior angle of a regular pentagon?

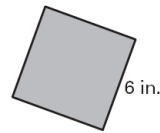


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Area: the amount of surface covered by a figure
**** area is labeled in "square units"**

Area of a square: $\text{Area} = (\text{side})^2$
 $A = s^2$

Find the area of the square.

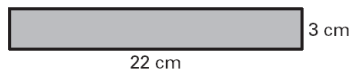


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Area of a rectangle: $\text{Area} = (\text{base}) (\text{height})$
 $A = b h$



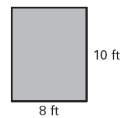
Find the area of the rectangle.



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Find the area of the square or rectangle.

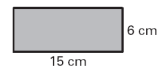
1. rectangle



2. square



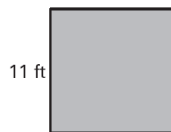
3. rectangle



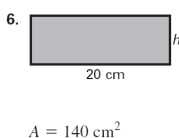
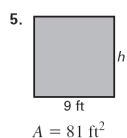
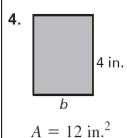
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Find the Base of a Rectangle

The rectangle has an area of 132 square feet.
Find its base.



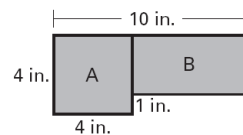
A gives the area of the rectangle. Find the missing side length.



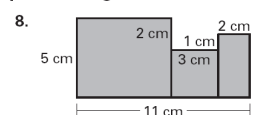
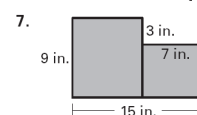
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Find the Area of a Complex Polygon

Find the area of the polygon made up of rectangles.



Find the area of the polygon made up of rectangles.



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