

## Warm Up

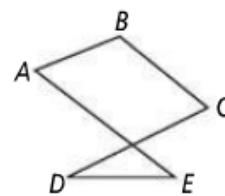
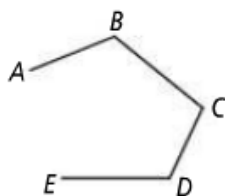
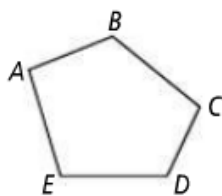
- 1.) Draw an acute angle and shade the interior.
- 2.) Find the measure of the supplement of a  $130^\circ$  angle.
- 3.) Find the measure of the complement of an  $86^\circ$  angle.

## 1-8: Perimeter, Circumference, and Area

Obj - SWBAT find perimeter, circumference, or area of basic shapes.

# Vocabulary

A *polygon* is a closed figure formed by three or more segments. Each segment intersects two other segments at their endpoints, and no two segments with a common endpoint are collinear.



Take note

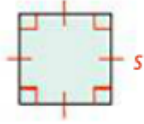
### Key Concept Perimeter, Circumference, and Area

#### Square

side length  $s$

$$P =$$

$$A =$$

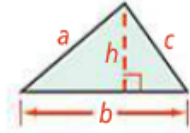


#### Triangle

side lengths  $a$ ,  $b$ , and  $c$ ,  
base  $b$ , and height  $h$

$$P =$$

$$A =$$

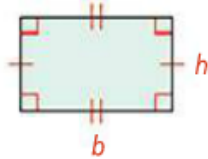


#### Rectangle

base  $b$  and height  $h$

$$P =$$

$$A =$$

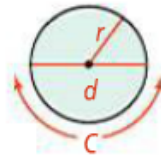


#### Circle

radius  $r$  and diameter  $d$

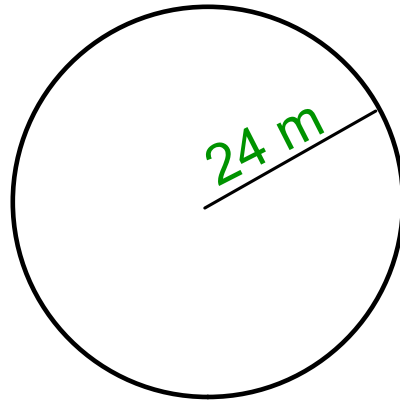
$$C = \quad \text{or } C =$$

$$A =$$

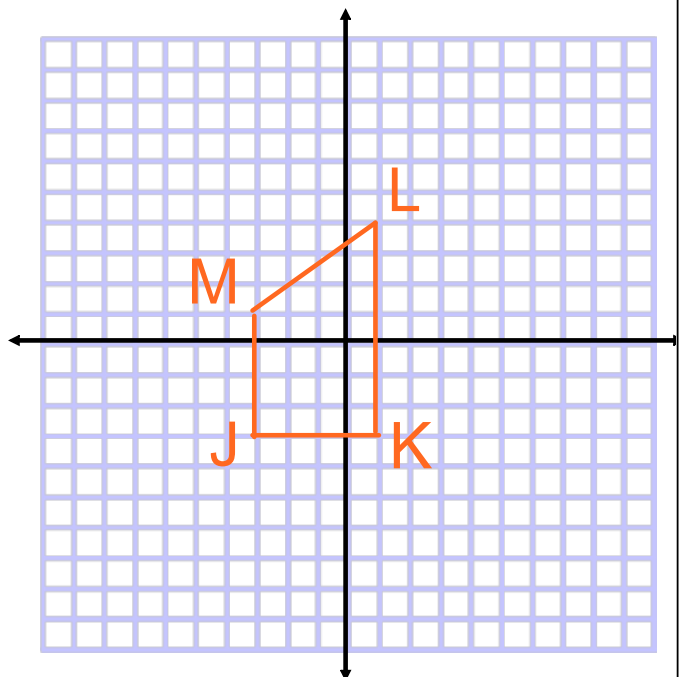


Ex. 1: You want to frame a picture that is 5 in. by 7 in. with a 1-in.-wide frame. What is the perimeter of the picture?

Ex. 2: What is the circumference of a circle with radius 24 m in terms of  $\pi$ ?



Ex. 3: Quadrilateral JKLM has vertices J(-3, -3), K(1, -3), L(1, 4), and M(-3, 1). What is the perimeter of JKLM?

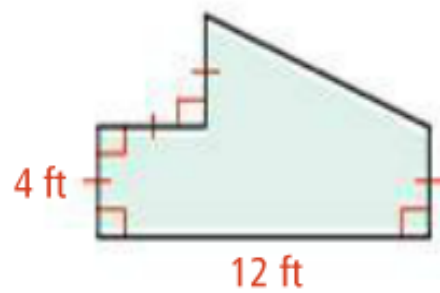


take note

**Postulate 1-10 Area Addition Postulate**

The area of a region is the sum of the areas of its nonoverlapping parts.

Ex. 4: What is the area of the figure below?



homework

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