

# Geometry

## Unit 7 Polygon Overview D

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: 1 2 3 4 5 6

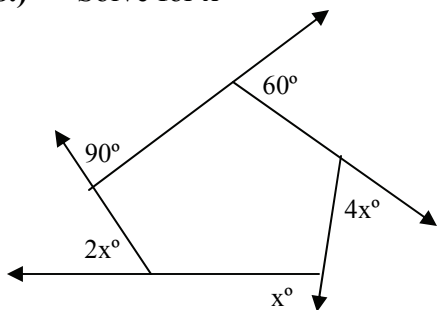
Directions: Read the directions.

- 1.) Find the measure of each interior angle and exterior angle of a regular 12-gon.
- 2.) Find the interior angle and exterior angle of a regular decagon.
- 3.) Each interior angle of a regular n-gon has a measure of **140°**, how many sides does it have?
- 4.) Each exterior angle of a regular n-gon has a measure of **45°**, how many sides does it have?
- 5.) Each interior angle of a regular n-gon has a measure of **170°**, how many sides does it have?
- 6.) Two interior angles of a triangle have measures of **55° and 65°**. Which of the following could **not** be a measure of an exterior angle of the triangle?  
a. 115°    b. 120°    c. 125°    d. 130°

7.) Classify each of the following polygons:

# of Sides	Name	# of Sides	Name
4	_____	8	_____
5	_____	9	_____
6	_____	10	_____
7	_____		

8.) Solve for x



9.) Solve for x

