

# Unit 7 Test Study Guide (Polygons & Quadrilaterals)

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

Date: \_\_\_\_\_ Per: \_\_\_\_\_

## Topic 1: Angles of Polygons

1. What is the formula for the sum of the interior angle measures of a polygon?

$$S = (n-2) \cdot 180$$

3. Find the sum of the interior angle measures of a 35-gon.

$$(35-2) \cdot 180 = \boxed{5940^\circ}$$

5. If the sum of the interior angles of a polygon is  $3780^\circ$ , how many sides does it have?

$$3780 = (n-2) \cdot 180$$

$$2 \mid \frac{n-2}{n=23}$$

7. What is the sum of the exterior angles measures of any polygon?

$$\boxed{360^\circ}$$

9. If the exterior angle of a regular polygon measures  $24^\circ$ , how many sides does it have?

$$\frac{360}{24} = \boxed{15 \text{ sides}}$$

11. Solve for  $x$ .

$$(8-2) \cdot 180 = 1080$$

$$43x + 392 = 1080$$

$$43x = 688$$

$$\boxed{x = 16}$$



2. What is the formula to find the measure of each interior angle of a regular polygon?

$$\frac{(n-2) \cdot 180}{n}$$

4. Six angles of a heptagon measure  $107^\circ$ ,  $139^\circ$ ,  $131^\circ$ ,  $110^\circ$ ,  $145^\circ$ , and  $128^\circ$ . What is the measure of the seventh angle?

$$(7-2) \cdot 180 = 900$$

$$900 - 760 = \boxed{140^\circ}$$

6. What is the measure of each interior angle of a regular 18-gon?

$$(18-2) \cdot 180 = 2880$$

$$\frac{2880}{18} = \boxed{160^\circ}$$

8. What is the measure of each exterior angle of a regular 30-gon?

$$\frac{360}{30} = \boxed{12^\circ}$$

10. If the interior angle of a regular polygon is  $162^\circ$ , how many sides does it have?

$$\text{ext} = 18^\circ$$

$$\frac{360}{18} = \boxed{20 \text{ sides}}$$

12. If the figure is a regular polygon, solve for  $x$ .

$$\frac{(5-2) \cdot 180}{5} = 108$$

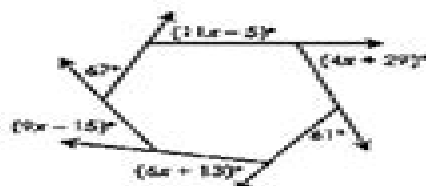
$$7x + 31 = 108$$

$$7x = 77$$

$$\boxed{x = 11}$$



13. Solve for  $x$ .



$$30x + 150 = 360$$

$$30x = 210$$

$$\boxed{x = 7}$$

# Geometry Polygons And Quadrilaterals Study Guide Questions

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