

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° , how many sides does it have?

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

$$\frac{3780}{180} = \frac{(n-2) \cdot 180}{180}$$

$$21 = n-2$$

$$n = \boxed{23}$$

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

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

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

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

11. Solve for x .

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

$$43x + 392 = 1080$$

$$43x = 688$$

$$x = \boxed{16}$$



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° , 139° , 131° , 110° , 145° , and 128° . 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?

$$\frac{(18-2) \cdot 180}{18} = \frac{2880}{18} = \boxed{160^\circ}$$

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° , 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 .

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

$$7x + 31 = 108$$

$$7x = 77$$

$$x = \boxed{11}$$



13. Solve for x .



$$30x + 150 = 360$$

$$30x = 210$$

$$x = \boxed{7}$$

Geometry Polygons And Quadrilaterals Study Guide Questions

N Colangelo



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