

Unit 7 Test Study Guide (Polygons & Quadrilaterals)

Name: _____

Date: _____ Block: _____

Topic 1: Interior Angles of Polygons

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

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

3. Find the sum of the interior angles of a 35-gon.

$$S = (35-2) \cdot 180$$

$$= \boxed{5940^\circ}$$

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

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

$$21 = n-2$$

$$\boxed{23 = n}$$

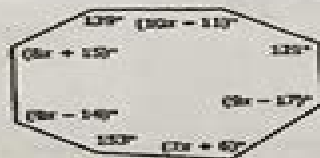
7. Solve for x .

$$(S = 1080^\circ)$$

$$43x + 392 = 1080$$

$$43x = 688$$

$$\boxed{x = 16}$$



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

$$\text{Int} \angle = \frac{S}{n}$$

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

$$(S = 900^\circ)$$

$$\boxed{140^\circ}$$

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

$$(S = 2880^\circ)$$

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

8. Solve for x .

$$(S = 540^\circ)$$

$$(\text{Int} = 108^\circ)$$

$$7x + 31 = 108$$

$$7x = 77$$

$$\boxed{x = 11}$$



Topic 2: Exterior Angles of Polygons

9. What is the sum of the exterior angles of any polygon?

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

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

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

13. Solve for x .



$$30x + 150 = 360$$

$$30x = 210$$

$$\boxed{x = 7}$$

10. What is the measures of each exterior angle of a regular nonagon?

$$\frac{360}{9} = \boxed{40^\circ}$$

12. If the interior angle of a regular polygon is 162° , how many sides does it have?

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

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

Geometry Unit 1 Answer Key

Lingsheng Yao

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