

# Unit 7 Test Study Guide (Polygons & Quadrilaterals)

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

Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Topic 1: Interior Angles of Polygons

<p>1. What is the formula for the sum of the interior angles of a polygon?</p> $S = (n-2) \cdot 180$	<p>2. What is the formula to find the measure of each interior angle of a regular polygon?</p> $In + < = \frac{S}{n}$
<p>3. Find the sum of the interior angles of a 35-gon.</p> $S = (35-2) \cdot 180$ $= \boxed{5940^\circ}$	<p>4. Six angles of a heptagon measure <math>107^\circ</math>, <math>139^\circ</math>, <math>131^\circ</math>, <math>110^\circ</math>, <math>145^\circ</math>, and <math>128^\circ</math>. What is the measure of the seventh angle?</p> $(S = 900^\circ)$ $\boxed{140^\circ}$
<p>5. If the sum of the interior angles of a polygon is <math>3780^\circ</math>, how many sides does it have?</p> $3780 = (n-2)180$ $21 = n-2$ $\boxed{23 = n}$	<p>6. What is the measure of each interior angle of a regular 18-gon?</p> $(S = 2880^\circ)$ $\frac{2880}{18} = \boxed{160^\circ}$
<p>7. Solve for x.</p> $(S = 1080^\circ)$ $43x + 392 = 1080$ $43x = 688$ $\boxed{x = 16}$ 	<p>8. Solve for x.</p> $(S = 540^\circ)$ $(In + = 108)$ $7x + 31 = 108$ $7x = 77$ $\boxed{x = 11}$ 

## Topic 2: Exterior Angles of Polygons

<p>9. What is the sum of the exterior angles of any polygon?</p> $\boxed{360^\circ}$	<p>10. What is the measures of each exterior angle of a regular nonagon?</p> $\frac{360}{9} = \boxed{40^\circ}$
<p>11. If the exterior angle of a regular polygon is <math>24^\circ</math>, how many sides does it have?</p> $\frac{360}{24} = \boxed{15}$	<p>12. If the interior angle of a regular polygon is <math>162^\circ</math>, how many sides does it have?</p> $Ex + = 18^\circ$ $\frac{360}{18} = \boxed{20}$
<p>13. Solve for x.</p>  $30x + 150 = 360$ $30x = 210$ $\boxed{x = 7}$	

# Geometry Unit 7 Answer Key

**Y Pai**



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