











**Geometry**

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

**Unit 3—polygons**

Period: \_\_\_\_\_

**Day 9—polygons and angle measures**

	<b>Sides</b> <i>n</i>	<b>Name</b>	<b>Diagonals</b>	<b>Total interior angle</b>	<b>Interior angle</b>	<b>Exterior angle</b>
	<b>3</b>	<b>Triangle</b>	<b>1</b>	<b>180</b>	<b>60</b>	<b>120</b>
	<b>4</b>	<b>Square</b>	<b>2</b>	<b>360</b>	<b>90</b>	<b>90</b>
	<b>5</b>	<b>Pentagon</b>	<b>3</b>	<b>540</b>	<b>108</b>	<b>72</b>
	<b>6</b>	<b>Hexagon</b>	<b>4</b>	<b>720</b>	<b>120</b>	<b>60</b>
	<b>7</b>	<b>Heptagon</b>	<b>5</b>	<b>900</b>	<b>128.57</b>	<b>51.43</b>
	<b>8</b>	<b>Octagon</b>	<b>6</b>	<b>1080</b>	<b>135</b>	<b>45</b>
	<b>9</b>	<b>Nonagon</b>	<b>7</b>	<b>1160</b>	<b>140</b>	<b>40</b>
	<b>10</b>	<b>Decagon</b>	<b>8</b>	<b>1340</b>	<b>144</b>	<b>36</b>
	<b>11</b>	<b>Hendecagon</b>	<b>9</b>	<b>1520</b>	<b>147.27</b>	<b>33.73</b>
	<b>12</b>	<b>dodecagon</b>	<b>10</b>	<b>1800</b>	<b>150</b>	<b>30</b>

$$\frac{(n-2)180}{n} = \textit{Interior Angle Measure}$$