$\qquad$

## Interior Angle

$$
\begin{aligned}
\text { Example: Sum of the interior angles } & =(\text { Number of sides }-2) \times 180^{\circ} \\
& =(6-2) \times 180^{\circ} \\
& =4 \times 180^{\circ}=\mathbf{7 2 0}
\end{aligned} \quad \begin{aligned}
\text { Interior angle }=\frac{\text { sum of interior angles }}{\text { Number of sides }}=\frac{\mathbf{7 2 0}}{6}=120^{\circ}
\end{aligned}
$$

Find the interior angle for each regular polygon. Round the answer to nearest tenths if necessary.
1)

2)

3)


Sum of the interior angles $\square$

$\qquad$

Each interior angle $=$ $\qquad$
4)

5)

6)

Sum of the interior angles

Sum of the interior angles $=: \cdots \cdots, \quad$,
Each interior angle

Each interior angle $=$
8)

9)

Sum of the interior angles $\square$
 Sum of the interior angles $=$
$\square$
Each interior angle $=$ ?
$\qquad$

## Answer Key

$$
\begin{aligned}
\text { Example: }
\end{aligned} \begin{aligned}
\text { Sum of the interior angles } & =(\text { Number of sides }-2) \times 180^{\circ} \\
& =(6-2) \times 180^{\circ} \\
& =4 \times 180^{\circ}=\mathbf{7 2 0}
\end{aligned} \quad \begin{aligned}
\text { Interior angle }=\frac{\text { sum of interior angles }}{\text { Number of sides }}=\frac{\mathbf{7 2 0}}{6}=120^{\circ}
\end{aligned}
$$

Find the interior angle for each regular polygon. Round the answer to nearest tenths if necessary.
1)

2)

3)


Sum of the interior angles $=1440^{\circ}$


Sum of the interior angles $=900$

4)

5)

6)


Sum of the interior angles $=\frac{.-\cdots-\ldots}{}$ Sum of the interior angles $=1080^{\circ} ;$ Sum of the interior angles $=$, Each interior angle $=\stackrel{135^{\circ}}{\ddots} \because \quad$ Each interior angle $=\frac{140^{\circ}}{}$ 7)


Sum of the interior angles $=0$.


Sum of the interior angles $=1440^{\circ}$
Each interior angle $=\frac{128.6^{\circ}}{\square}$
8)

9)


