$\qquad$

## Exterior Angle

## Example:



## Sum of Exterior angles $=360^{\circ}$

Exterior angle $=\frac{\text { Sum of the exterior angles }}{\text { Number of sides }}$

$$
\begin{aligned}
& =\frac{360^{\circ}}{6} \\
& =60^{\circ}
\end{aligned}
$$

Find the exterior angle for each regular polygon. Round the answer to nearest whole number.
1)

4)


7)
regular 13-gon

Number of sides = $\ddots \because-\ldots-\ldots-\ldots$

Each exterior angle

regular 20-gon
11)


Each exterior angle $=$ !
2)


Each exterior angle $=:-\cdots \cdots$,
6)


Number of sides $=$


regular 15-gon


regular 18-gon
12)


Each exterior angle $=, \quad,-\cdots-\ldots \ldots$
 Each exterior angle $=$


Number of sides $=$


Each exterior angle $=$
regular 12-gon Number of sides $=$ U,

regular 14-gon Number of sides $=$ !

Each exterior angle $\qquad$
$\qquad$


Find the exterior angle for each regular polygon. Round the answer to nearest whole number.
1)


Each exterior angle $=\left\{\begin{array}{c}51^{\circ} \\ \ddots\end{array}\right.$
4)


Each exterior angle $=\begin{gathered}90^{\circ} \\ \ddots\end{gathered}$
7)
regular 13-gon


Each exterior angle $=0$.
regular 20-gon

## Number of sides $=: \quad 20$


8)
11)
2)


Each exterior angle $=, \quad \begin{aligned} & 36^{\circ} \\ & \ddots \\ & \text {; }\end{aligned}$
6)


Each exterior angle $=: \begin{aligned} & \square \\ & \ddots \\ & 72^{\circ}\end{aligned}$
regular 15-gon

Number of sides = 15
Each exterior angle $=: \begin{gathered}24^{0} \\ \ddots\end{gathered}$
regular 18-gon
12)

Number of sides $=$

Each exterior angle $\square$
 Each exterior angle $=$,


Number of sides $=$
 regular 12-gon Number of sides $=\stackrel{-\cdots-12}{ }$ Each exterior angle $=: \begin{aligned} & 30^{\circ} \\ & \ddots\end{aligned}$
regular 14-gon

## Number of sides $=$ 14



