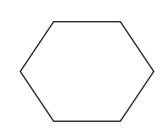
Exterior Angle



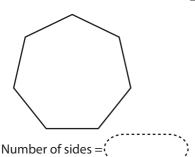


Sum of Exterior angles = 360°

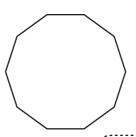
Exterior angle = $\frac{\text{Sum of the exterior angles}}{\text{Number of sides}}$ $= \frac{360^{\circ}}{6}$ $= 60^{\circ}$

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

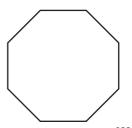
1)



2)



Number of sides =



Number of sides =

Each exterior angle =



Each exterior angle = (

4)

7)



Number of sides =



Each exterior angle =



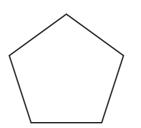
Number of sides = (

Each exterior angle =

10) regular 20-gon 11)

Number of sides = (

Each exterior angle =



Number of sides $= \frac{1}{2}$

Each exterior angle =

regular 15-gon

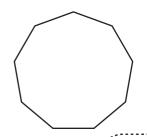
Number of sides =

Each exterior angle =

regular 18-gon

Number of sides = (

Each exterior angle =



Number of sides =

Each exterior angle =

regular 12-gon

Number of sides =

Each exterior angle =

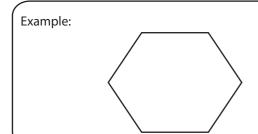
regular 14-gon

12)

Number of sides =

Each exterior angle = (

Answer Key



Sum of Exterior angles = 360°

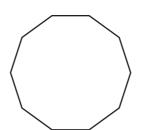
 $\mbox{Exterior angle} = \frac{\mbox{Sum of the exterior angles}}{\mbox{Number of sides}}$ $=60^{\circ}$

Find the exterior angle for each regular polygon. Round the answer to nearest whole number. 2)

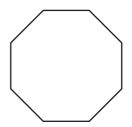
1)

Number of sides = 7

Each exterior angle = $\begin{pmatrix} 51^{\circ} \end{pmatrix}$ Each exterior angle = $\begin{pmatrix} 36^{\circ} \end{pmatrix}$ Each exterior angle = $\begin{pmatrix} 45^{\circ} \end{pmatrix}$



Number of sides = (10)



Number of sides = . 8

4)



Number of sides = (4

Each exterior angle = (90°) Each exterior angle = (72°) Each exterior angle = (40°)

regular 13-gon

7)

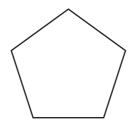
Number of sides = (13

Each exterior angle = 28°

10) regular 20-gon 11)

Number of sides = (20)

Each exterior angle = $\begin{pmatrix} 18^{\circ} \\ \end{pmatrix}$ Each exterior angle = $\begin{pmatrix} 20^{\circ} \\ \end{pmatrix}$ Each exterior angle = $\begin{pmatrix} 26^{\circ} \\ \end{pmatrix}$



Number of sides = (5

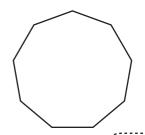
regular 15-gon

Number of sides = (15

Each exterior angle = (24°

regular 18-gon

Number of sides = (18)



Number of sides $= \frac{9}{}$

regular 12-gon

Number of sides = 12

Each exterior angle = 30°

regular 14-gon

12)

Number of sides = 14