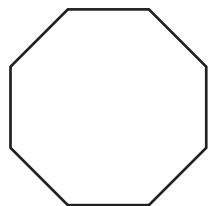


Interior Angle

MS4

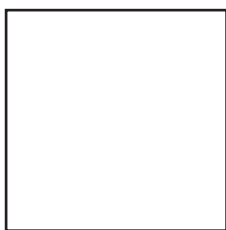
Example:



$$\begin{aligned} \text{Interior angle} &= \frac{\text{sum of interior angles}}{\text{number of sides}} \\ &= \frac{1080^\circ}{8} \\ &= \mathbf{135^\circ} \end{aligned}$$

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

1)



Sum of the interior angles =

Each interior angle =

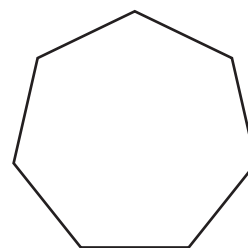
2)



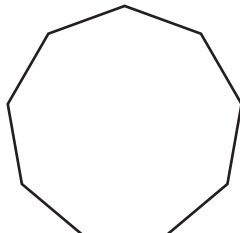
Sum of the interior angles =

Each interior angle =

3)



4)



Sum of the interior angles =

Each interior angle =

7)

regular 14-gon

Sum of the interior angles =

Each interior angle =

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Sum of the interior angles =

Each interior angle =

regular 15-gon

10)

regular 17-gon

Sum of the interior angles =

Each interior angle =

11)

regular 20-gon

Sum of the interior angles =

Each interior angle =

12)

regular 11-gon

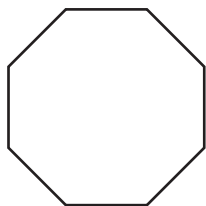
Sum of the interior angles =

Each interior angle =

Interior Angle

MS4

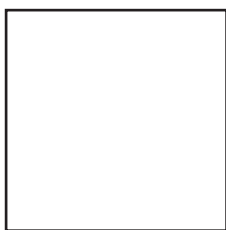
Example:



$$\begin{aligned} \text{Interior angle} &= \frac{\text{sum of interior angles}}{\text{number of sides}} \\ &= \frac{1080^\circ}{8} \\ &= 135^\circ \end{aligned}$$

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

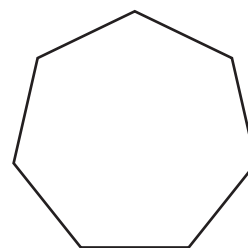
1)

Sum of the interior angles = **360°**Each interior angle = **90°**

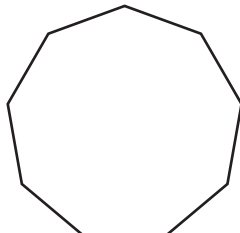
2)

Sum of the interior angles = **900°**Each interior angle = **128.6°**

3)



4)

Sum of the interior angles = **1260°**Each interior angle = **140°**

7)

regular 14-gon

Sum of the interior angles = **2160°**Each interior angle = **154.3°**

10)

regular 17-gon

Sum of the interior angles = **2700°**Each interior angle = **158.8°**

11)

regular 20-gon

Sum of the interior angles = **3240°**Each interior angle = **162°**

12)

regular 11-gon

Sum of the interior angles = **1620°**Each interior angle = **147.3°**

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