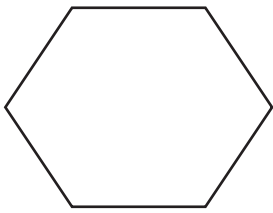


Sum of Interior Angles

Example:



Sum of the interior angles = (Number of sides - 2) x 180°
= (6 - 2) x 180°
= 4 x 180° = **720°**

Find the sum of interior angles for each polygon.

1)

Number of sides =

Sum of the interior angles =

2)

Number of sides =

Sum of the interior angles =

3)

Number of sides =

Sum of the interior angles =

4)

Number of sides =

Sum of the interior angles =

5)

Number of sides =

Sum of the interior angles =

6)

Number of sides =

Sum of the interior angles =

7)

Number of sides =

Sum of the interior angles =

8)

Number of sides =

Sum of the interior angles =

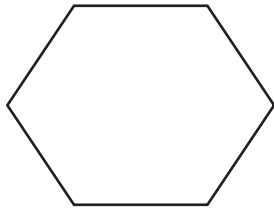
9)

Number of sides =

Sum of the interior angles =

Answer Key

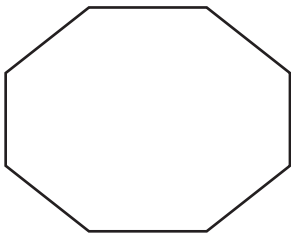
Example:



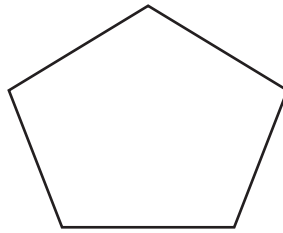
$$\begin{aligned}\text{Sum of the interior angles} &= (\text{Number of sides} - 2) \times 180^\circ \\ &= (6 - 2) \times 180^\circ \\ &= 4 \times 180^\circ = \mathbf{720^\circ}\end{aligned}$$

Find the sum of interior angles for each polygon.

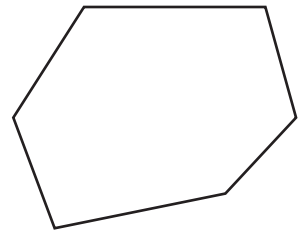
1)

Number of sides = **8**Sum of the interior angles = **1080°**

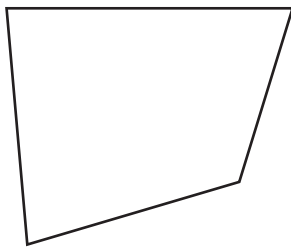
2)

Number of sides = **5**Sum of the interior angles = **540°**

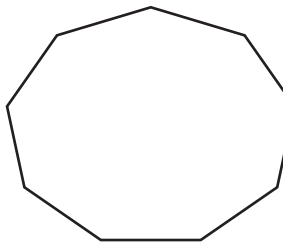
3)

Number of sides = **6**Sum of the interior angles = **720°**

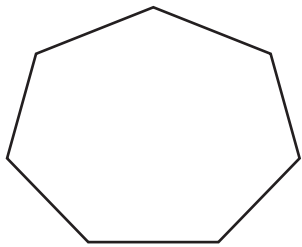
4)

Number of sides = **4**Sum of the interior angles = **360°**

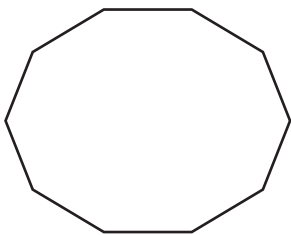
5)

Number of sides = **9**Sum of the interior angles = **1260°**

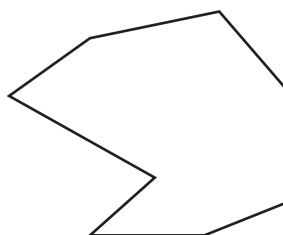
6)

Number of sides = **7**Sum of the interior angles = **900°**

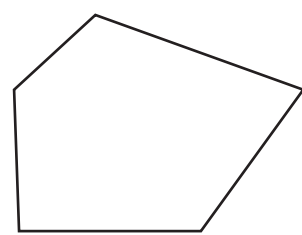
7)

Number of sides = **10**Sum of the interior angles = **1440°**

8)

Number of sides = **8**Sum of the interior angles = **1080°**

9)

Number of sides = **5**Sum of the interior angles = **540°**