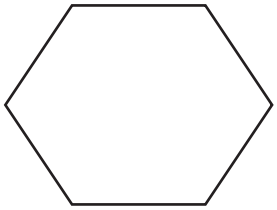
Name : _____ Score : _____

MS1

Interior Angle

Example:



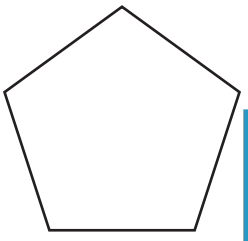
$$\text{Interior angle} = \frac{\text{sum of interior angles}}{\text{Number of sides}}$$

$$= \frac{720^0}{6}$$

$$= 120^0$$

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

1)

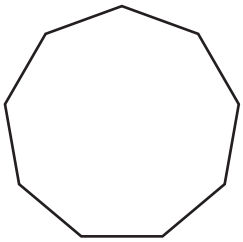


Sum of the interior angles = _____

Each interior angle = _____

2)

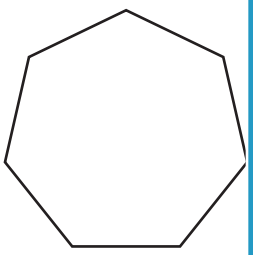
3)



:he interior angles = _____

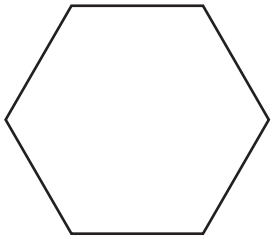
:ach interior angle = _____

4)



Sum of the interior angles = _____

Each interior angle = _____



:he interior angles = _____

:ach interior angle = _____

7) regular 17-gon

Sum of the interior angles = _____

Each interior angle = _____

regular 20-gon

Sum of the interior angles = _____

Each interior angle = _____

10) regular 12-gon

Sum of the interior angles = _____

Each interior angle = _____

11) regular 18-gon

Sum of the interior angles = _____

Each interior angle = _____

12) regular 16-gon

Sum of the interior angles = _____

Each interior angle = _____

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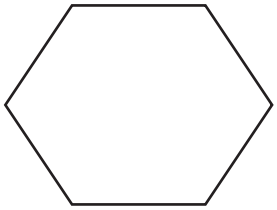
Name : _____ **Answer key** Score : _____

MS1

Interior Angle

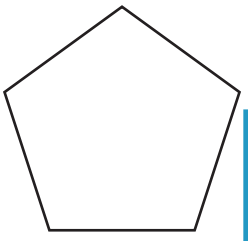
Example:



$$\text{Interior angle} = \frac{\text{sum of interior angles}}{\text{Number of sides}} = \frac{720^0}{6} = 120^0$$

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

1)

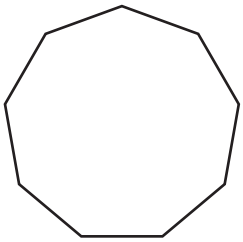


Sum of the interior angles = 54

Each interior angle = 10

2)

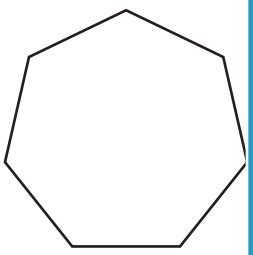
3)



the interior angles = 1260^0

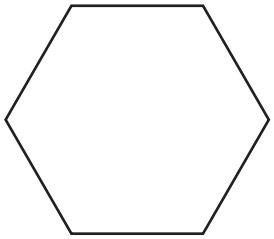
ach interior angle = 140^0

4)



Sum of the interior angles = 90

Each interior angle = 12



the interior angles = 720^0

ach interior angle = 120^0

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7) regular 17-gon

Sum of the interior angles = 2700^0

Each interior angle = 158.8^0

regular 20-gon

Sum of the interior angles = 3240^0

Each interior angle = 162^0

10) regular 12-gon

Sum of the interior angles = 1800^0

Each interior angle = 150^0

11) regular 18-gon

Sum of the interior angles = 2880^0

Each interior angle = 160^0

12) regular 16-gon

Sum of the interior angles = 2520^0

Each interior angle = 157.5^0