

Name : _____

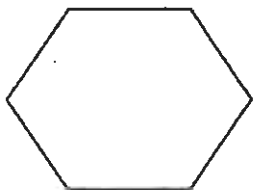
4-6

Score : _____

Problems 1-6

Exterior Angle

Example:



Sum of Exterior angles = 360°

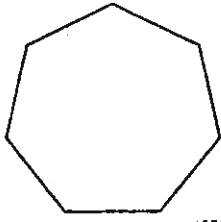
$$\text{Exterior angle} = \frac{\text{Sum of the exterior angles}}{\text{Number of sides}}$$

$$= \frac{360^\circ}{6}$$

$$= 60^\circ$$

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

1)

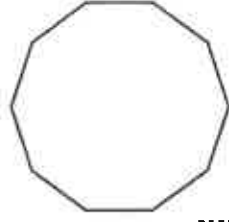


Number of sides = 7

Each exterior angle = 51.4°

Each Int. angle = 128.6°

2)

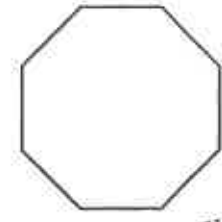


Number of sides = 10

Each exterior angle = 36°

Each int angle = 144°

3)



Number of sides = 8

Each exterior angle = 45°

Each int angle = 135°

4)

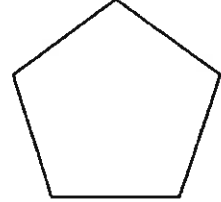


Number of sides = 4

Each exterior angle = 90°

Int. Angle regular 13-gon = 90°

5)

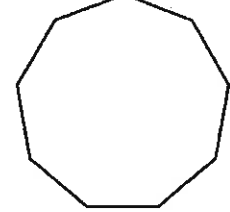


Number of sides = 5

Each exterior angle = 72°

Int angle regular 15-gon = 108°

6)



Number of sides = 9

Each exterior angle = 40°

Int angle regular 12-gon = 140°

7)

Number of sides = _____

Each exterior angle = _____

8)

Number of sides = _____

Each exterior angle = _____

9)

Number of sides = _____

Each exterior angle = _____

10)

regular 20-gon

Number of sides = _____

Each exterior angle = _____

11)

regular 18-gon

Number of sides = _____

Each exterior angle = _____

12)

regular 14-gon

Number of sides = _____

Each exterior angle = _____