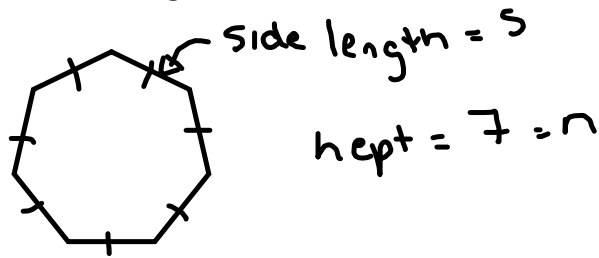


LESSON # 42 ~ Perimeter of a Regular Polygon

Regular Polygons with n sides of side length "s" units?????

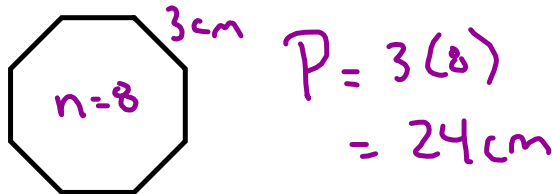
What does this mean...



Perimeter is

$$P = sn$$

Example 1



Octagon

Example 2

The perimeter of a regular decagon is 112cm. Find the length of each side.

$$n = 10 \quad P = 112$$

$$P = sn$$

$$\frac{112}{10} = \frac{10s}{10}$$

$$s = 11.2 \text{ cm}$$

Example 3

Name the regular polygon.

Side length is 11.7 & perimeter is 70.2cm

$$P = sn$$

$$\frac{70.2}{11.7} = \frac{11.7n}{11.7}$$

$$6 = n \quad \text{Hexagon}$$

Homework

Act Booklet

P 76 #6

P 77-8 Corrections

#1 Perimeter 108cm

Side 8.1cm