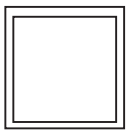
NAME_____

Module 13 **Perimeter, Area, and Volume**
Lesson 1 **Perimeter and Circumference**

Guided Practice 13.1

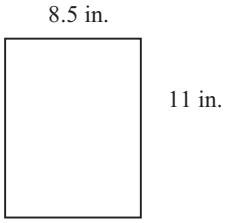
Set 1

1 What is the perimeter of a square picture frame with a side length of 13.25 centimeters?



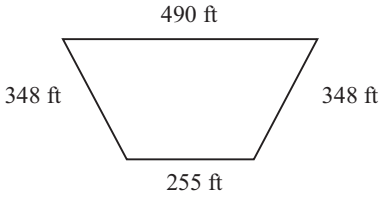
$P = 4s$
$P = 4(13.25)$
$P = 53$ cm

2 A letter-size sheet of paper is $8\frac{1}{2}$ inches by 11 inches. What is the perimeter of the paper?



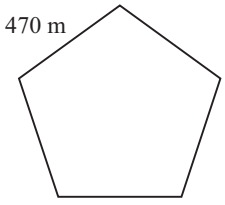
$P = 2l + 2w$
$P = 2(11) + 2(8.5)$
$P = 22 + 17$
$P = 39$ in.

3 Galaxy Park is shaped like a trapezoid. What is the perimeter of the park?



$P = 490 + 348 + 255 + 348$
$P = 1{,}441$ ft

4 A shopping mall is shaped like a regular pentagon. What is the perimeter of the shopping mall?



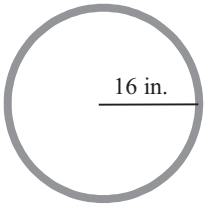
$P = 5s$
$P = 5(470)$
$P = 2{,}350$ m

Set 2

1 If the circumference of a Venutian coin is about 96 millimeters, estimate the diameter.

$$C = \pi d$$
$$96 = 3.14d$$
$$\frac{96}{3.14} = d$$
$$d \approx 30.57 \text{ mm}$$

2 A plastic hoop has a radius of 16 inches.
Estimate the circumference of the plastic hoop.



$$C = 2\pi r$$
$$C = 2(3.14)(16)$$
$$C \approx 100 \text{ in.}$$