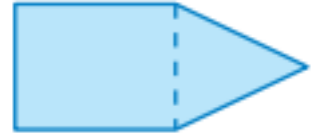


8.3

Areas of Circles

DO NOW

1. Is the perimeter of the composite figure equal to the sum of the perimeters of the individual figures.
Explain.



2. Draw a composite figure formed by a parallelogram and a trapezoid.

π is usually rounded
to 3.14

$$\pi \approx 3.14 \text{ or } \frac{22}{7}$$

Approximately

AREA FORMULA OF A CIRCLE

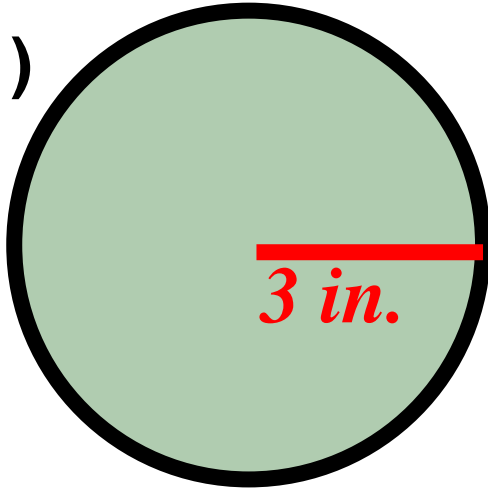
Area =

**One way to remember this, is that area is
always measured in squares.**

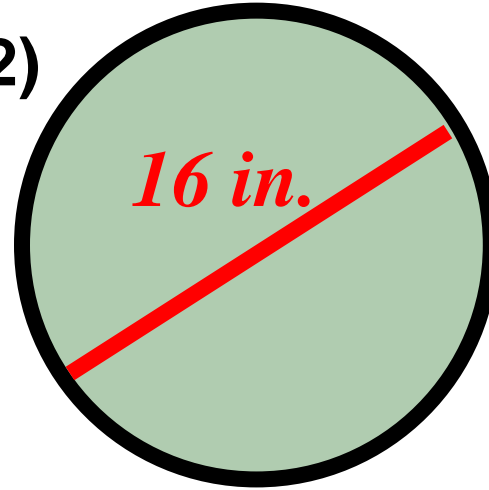
Practice

- Find the measure of the radius
- Write the formula
- Plug-in the known information
- Solve

1)



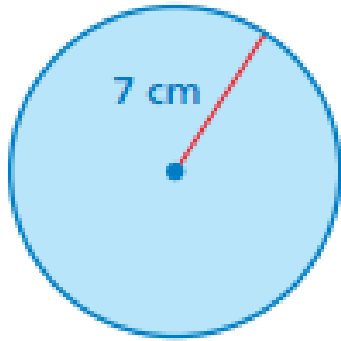
2)



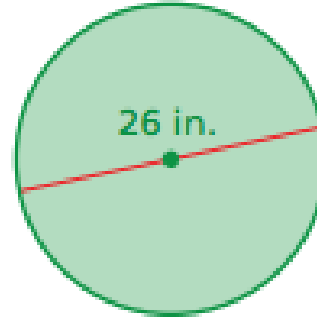
On Your Own

- Find the measure of the radius
- Write the formula
- Plug-in the known information
- Solve

3)



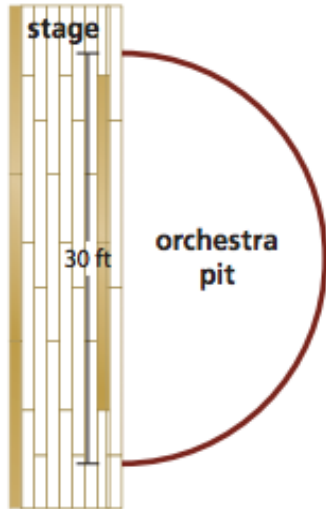
4)



Finding the Area of a Semicircles:

5) Find the area of the semicircular orchestra pit.

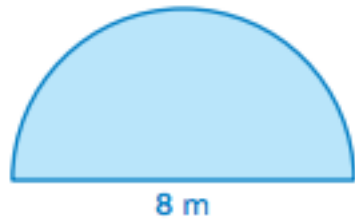
The area of the orchestra pit is one-half the area of a circle with a diameter of 30 feet.



- Find the measure of the radius
- Write the formula
- Plug-in the known information
- Solve
- Find half of this area

On Your Own

6)



7)



- Find the measure of the radius
- Write the formula
- Plug-in the known information
- Solve
- Find half of this area