11.6 Circumference of a Circle   Name _____
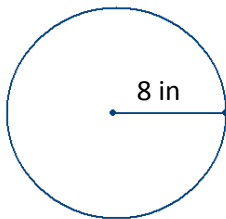11.7 Area of a Circle

Finding Circumference and Area of Partial Circles

$$C = \pi d \qquad\qquad A = \pi r^2$$
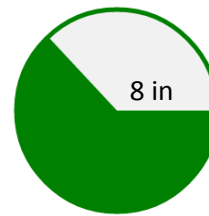
Find the area of the circle shown below.

1)

8 in

Area: _____

Find the area of the shaded sector.
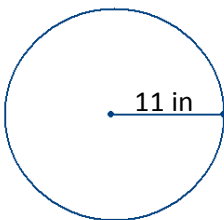
$\dfrac{5}{8}$ of the circle is shaded.

2)

8 in

Partial Area: _____

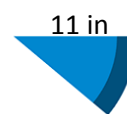Find the circumference of the circle shown below.

3)

11 in

Circumference: _____
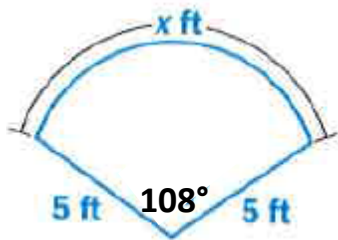
Find the circumference of the shaded sector.
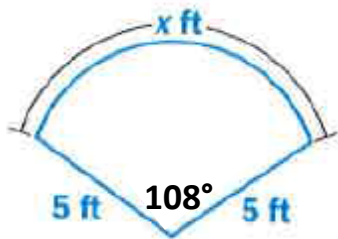
$\dfrac{1}{8}$ of the circle is shaded.

4)

11 in

Partial Circumference: _____

5) What fraction of a circle is shown? (Hint: There are 360 degrees in a circle.)

x ft

5 ft   108°   5 ft

6) Find the value of x to the nearest tenth
   given that the circumference of the entire circle is 31.4 ft.

x ft

5 ft   108°   5 ft

7) Find the **area** of the partial circle to the nearest tenth
   given that the area of the entire circle is 78.5 ft².

x ft

5 ft   108°   5 ft