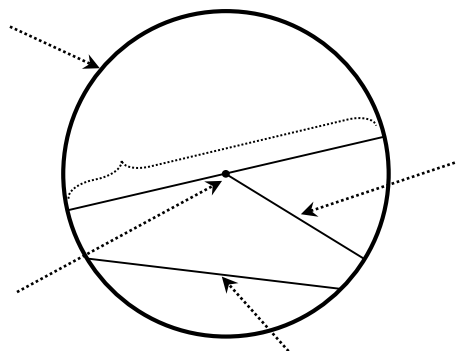


Name _____ Date _____

Geometry – Circumference and Area of Circles

1) Name the parts of the circle



2) Complete the following:

$$\sqrt{1} = \underline{\hspace{2cm}}$$

$$\sqrt{64} = \underline{\hspace{2cm}}$$

$$\sqrt{4} = \underline{\hspace{2cm}}$$

$$\sqrt{81} = \underline{\hspace{2cm}}$$

$$\sqrt{9} = \underline{\hspace{2cm}}$$

$$\sqrt{100} = \underline{\hspace{2cm}}$$

$$\sqrt{16} = \underline{\hspace{2cm}}$$

$$\sqrt{121} = \underline{\hspace{2cm}}$$

$$\sqrt{25} = \underline{\hspace{2cm}}$$

$$\sqrt{144} = \underline{\hspace{2cm}}$$

$$\sqrt{36} = \underline{\hspace{2cm}}$$

$$\sqrt{169} = \underline{\hspace{2cm}}$$

$$\sqrt{49} = \underline{\hspace{2cm}}$$

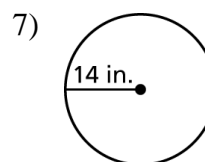
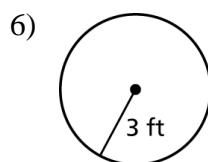
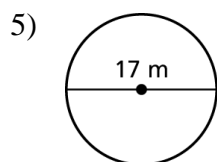
$$\sqrt{196} = \underline{\hspace{2cm}}$$

Complete the following:

3) To find the circumference of a circle, you would use the formula _____.

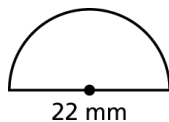
4) To find the area of a circle, you would use the formula _____.

Find the circumference of the circle. Use 3.14 or $\frac{22}{7}$ for π .

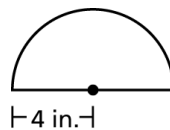


Find the perimeter of the semicircular region.

8)



9)



Complete the following. Show all algebraic work.

10) Find the circumference of a circular hot tub that has a diameter of 12 feet.

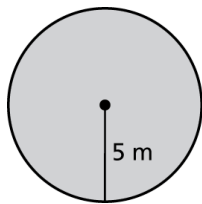
11) Find the circumference of a circle that has a *radius* of 4.5 feet.

12) Find the circumference of a circle that has a diameter of 6.2 feet.

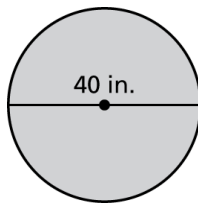
13) Find the *diameter* of a circle that has a circumference of 25.12 ft.

Find the area for the following. Use 3.14 or $\frac{22}{7}$ for π .

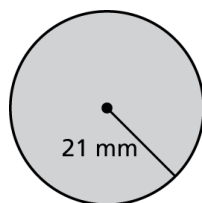
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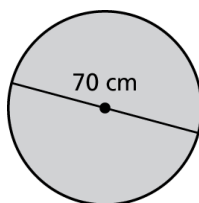
15)



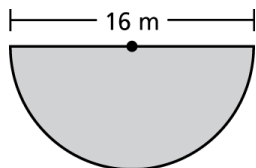
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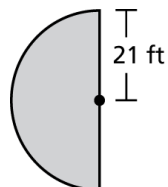
17)



18)



19)



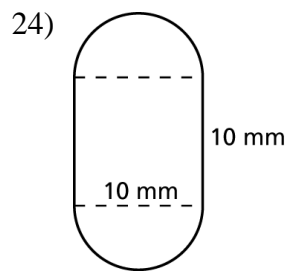
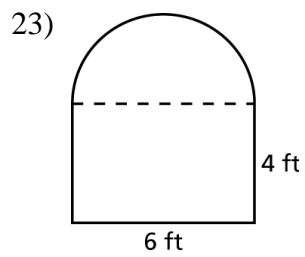
Complete the following. Show all algebraic work.

20) What is the radius of a circle whose area is 254.34 cm^2 ?

21) What is the area of a circular region with a diameter of 18 kilometers?

- 22) The area of Jason's cake plate is about 50.24 in^2 . He places a 7-inch fork across the plate after eating. Can the fork fit on the plate without going over the edge? Show all work.

Complete perimeter and area of the following regions.



Find the area of the shaded region..

