

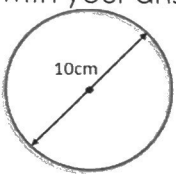

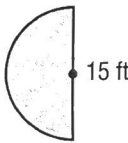
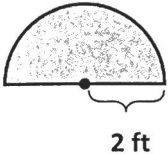
NAME: _____

Circles Quiz Review

You may find the following formulas helpful on this assignment:

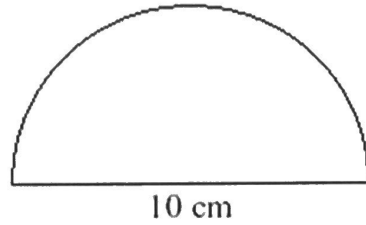
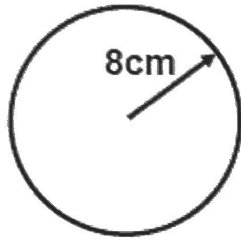
Area of a Circle: $A = \pi \cdot r \cdot r$

Circumference of a Circle: $C = \pi \cdot d$ OR $C = 2 \cdot r \cdot \pi$

<p>1. If the <u>radius</u> of a circle is <u>11 feet</u>, what is the length of the <u>diameter</u>?</p> <p>$d = 2(11) \quad \underline{22}$ feet</p>	<p>2. If the <u>diameter</u> of a circle is <u>24 centimeters</u>, what is the length of the <u>radius</u>?</p> <p>$r = \frac{24}{2} \quad \underline{12}$ centimeters</p>
<p>3. Find the <u>circumference</u> of the circle. Use 3.14 for pi. Show your work. Include a label with your answer.</p>  <p>$C = \pi d$ $= 3.14(10)$</p> <p>Circumference = <u>31.4 cm</u></p>	<p>4. During a senate campaign, a volunteer passed out a "Vote for Peterson" button. The campaign button has a <u>radius</u> of <u>4 centimeters</u>. What is the button's <u>circumference</u>? Use 3.14 for pi. Show your work. Include a label with your answer.</p> <p>$C = 2r\pi$ $= 2(4)(3.14)$</p> <p>Circumference = <u>25.12 cm</u></p>
<p>5. Find the <u>area</u> of the circle. Use 3.14 for pi. Show your work. Include a label with your answer.</p>  <p>$A = \pi r r$ $= 3.14(3)(3)$</p> <p>Area = <u>28.26 m²</u></p>	<p>6. Patricia buys a round dinner table. The <u>diameter</u> of the dinner table is 4 feet. What is the <u>area</u> of the table? Use 3.14 for pi. Show your work. Include a label with your answer. <u>HINT: Find the length of the radius first.</u></p> <p>$A = \pi r r \quad d = 4$ $= 3.14(2)(2) \quad r = 2$</p> <p>Area = <u>12.56 ft²</u></p>
<p>7. Find the <u>area</u> of the semi-circle whose <u>diameter</u> is 15 feet. Use 3.14 for pi. Show your work. Include a label with your answer. <u>HINT: Find the length of the radius first.</u></p>  <p>$d = 15$ $r = 7.5$</p> <p>$A = \frac{\pi r r}{2}$ $= \frac{3.14(7.5)(7.5)}{2}$</p> <p>Area = <u>$\frac{176.625}{2} = 88.31 \text{ ft}^2$</u></p>	<p>8. A semi-circle shaped rug has a <u>radius</u> of 2 ft. What is the <u>area</u> of the rug? Use 3.14 for pi. Show your work. Include a label with your answer.</p>  <p>$A = \frac{\pi r r}{2}$ $= \frac{3.14(2)(2)}{2}$ $= \frac{12.56}{2}$</p> <p>Area = <u>6.28 ft^2</u></p>

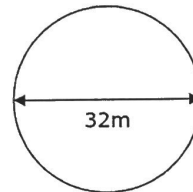
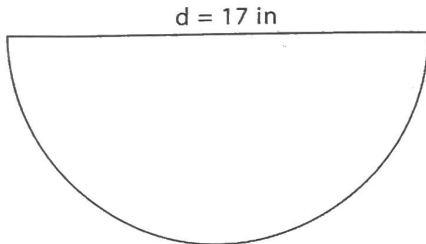
All measurements for the grid are in inches. You must write the correct unit of measure.

Circumference	34 in.
Area	2.7 in ²
Area	9 in ²
Circumference	10.3 in
Area	4 in ²
Circumference	7 in
Circumference	31 in
Area	95.3 in ²



Diameter	16 cm	Diameter	10 cm
Radius	8 cm	Radius	5 cm
Circumference	50.24 cm	Circumference	XXXXXXXXXXXXXXXXXXXX
Area	100.48 cm²	Area	39.25 cm ²

200.96



Diameter	17 in	Diameter	32 m
Radius	8.5 in	Radius	16 m
Circumference	52.35 in	Circumference	100.48 m
Area	113.43 in ²	Area	401.92 m²

803.84 m²

Mary wants to cover the top of a circular pillow with fur. The pillow has a radius of 8.5 inches. What amount of fur will she need to buy?

$$A = 3.14(8.5)(8.5) = 226.87 \text{ in}^2$$

$$r = 8.5$$

Joey wants to install a small circular window on his boat. The radius is 8.4 inches. Approximately how much glass will he need?

$$A = 3.14(8.4)(8.4) = 221.56 \text{ in}^2$$