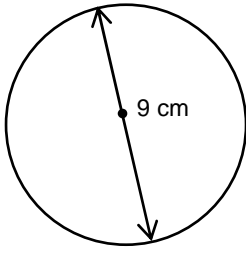
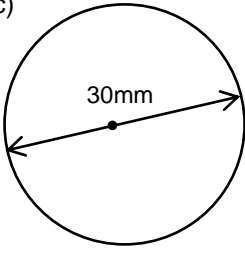
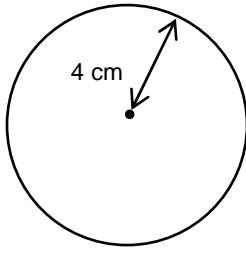
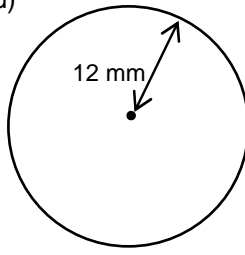


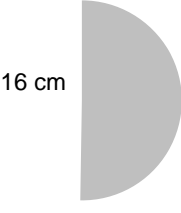

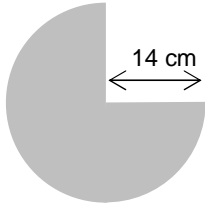
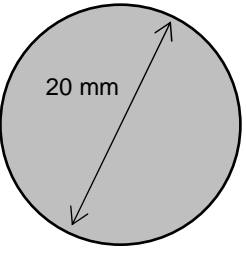
Name : _____

Topic: Math – Circles – Area

Directions: Solve for the area. Express your answers in terms of π . You may use a calculator if necessary.

a)  <p>A circle with a center point. A radius is drawn from the center to the top edge, labeled "9 cm".</p> <p>Answer: _____ sq. cm</p>	c)  <p>A circle with a center point. A radius is drawn from the center to the right edge, labeled "30mm".</p> <p>Answer: _____ sq. mm</p>
b)  <p>A circle with a center point. A radius is drawn from the center to the top-right edge, labeled "4 cm".</p> <p>Answer: _____ sq. cm</p>	d)  <p>A circle with a center point. A radius is drawn from the center to the top-right edge, labeled "12 mm".</p> <p>Answer: _____ sq. mm</p>

Directions: Solve for the area of the shaded part of the figure. Use $\pi = 3.14$. You may use a calculator if necessary.

a)  <p>A shaded semicircle with a vertical diameter on the left. The radius is labeled "16 cm".</p> <p>Answer: _____ sq. cm</p>	c)  <p>A shaded quarter circle with a 90-degree angle at the top-left corner. The radius is labeled "5 mm".</p> <p>Answer: _____ sq. mm</p>
b)  <p>A shaded 3/4 circle with a 90-degree angle removed from the top-right. The radius is labeled "14 cm".</p> <p>Answer: _____ sq. cm</p>	d)  <p>A shaded circle with a diameter line drawn from the top to the bottom, labeled "20 mm".</p> <p>Answer: _____ sq. mm</p>