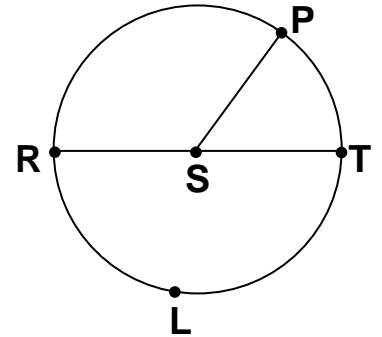


NAME _____ DATE _____ PER. _____

CIRCUMFERENCE & AREA OF CIRCLES & COMPOSITES

Refer to Circle S for exercises 1 – 5.



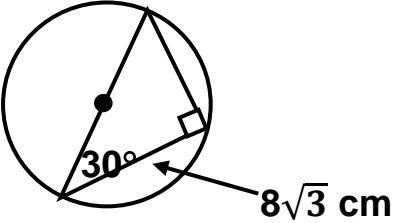
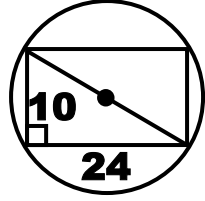
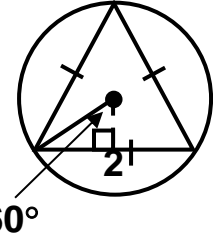
1. _____	Name the center of Circle S.
2. _____	Name <i>all</i> radii <i>shown</i> .
3. _____	Name a diameter shown.
4. $SP =$ _____	If $RT = 8.2$, find SP .
5. YES or NO Explain:	Is $\overline{SR} \cong \overline{SL}$? If yes, explain.

Find the radius or diameter as indicated.

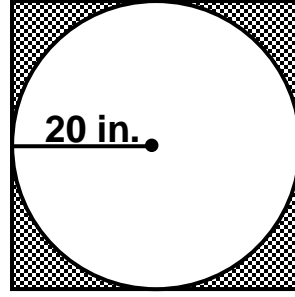
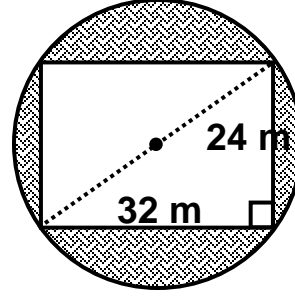
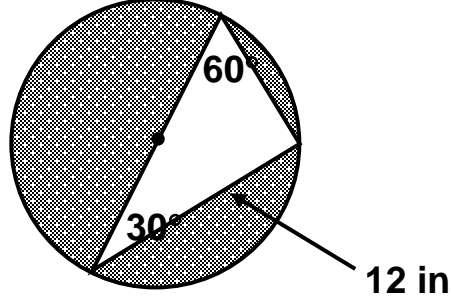
6. $r =$ _____	$d = 26$ cm
7. $d =$ _____	$r = 13.6$ in

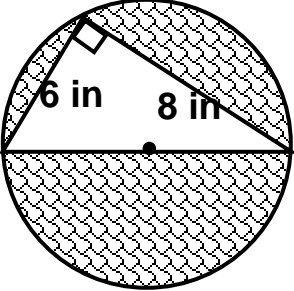
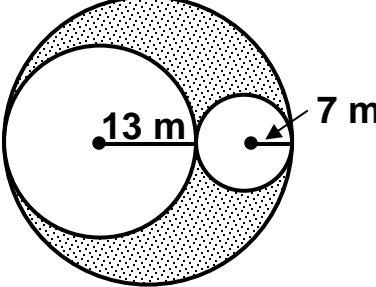
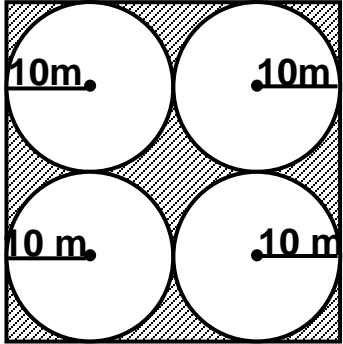
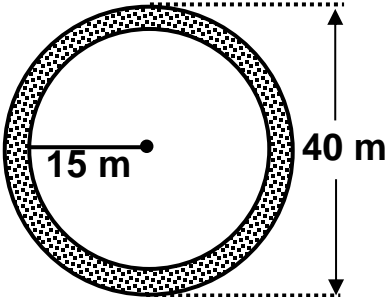
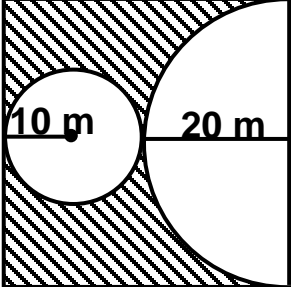
Find the circumference and area of each circle.

8. $C =$ _____ $A =$ _____	
9. $C =$ _____ $A =$ _____	

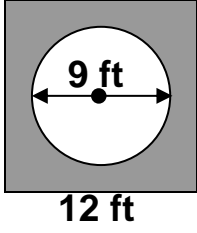
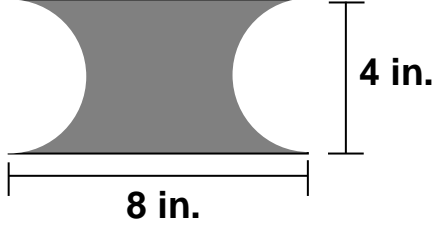
<p>10. C = _____ A = _____</p>	
<p>11. C = _____ A = _____</p>	
<p>12. C = _____ A = _____</p>	

Find the area of each shaded region. Round even numbered problems to the nearest thousandth.

<p>13. A = _____</p>	
<p>14. A = _____</p>	
<p>15. A = _____</p>	

<p>16. A = _____</p>	
<p>17. A = _____</p>	
<p>18. A = _____</p>	
<p>19. A = _____</p>	
<p>20. A = _____</p>	

Multiple Choice

22. _____	<p>Charlie is designing a square deck with a side length of 12 feet. In the middle of the deck will be a round pool 9 feet in diameter, as shown below.</p> <p>To the nearest square foot, what is the area of the shaded portion of the deck?</p> <p>A. 64 ft² B. 80 ft² C. 144 ft² D. Not Here</p> 
23. _____	<p>Paul cut a rectangular piece of paper. He then cut off a semi-circular piece from each end, as shown below.</p>  <p>What is the area of the remaining paper? Use 3.14 for π.</p> <p>A. 19.44 in.² B. 25.72 in.² C. 28.86 in.² D. 32.00 in.²</p>
24. _____	<p>If the area of a circle is increased by a factor of 4, what is the change in the diameter of the circle?</p> <p>A. The diameter is one half of the original diameter. B. The diameter is 2 times the original diameter. C. The diameter is 4 times the original diameter. D. The diameter is 16 times the original diameter.</p>