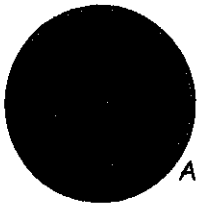
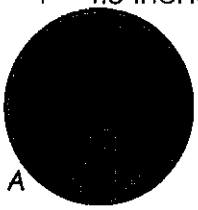
Name: _____ Date: _____

Find the area of the shaded region (round to the nearest hundredths):

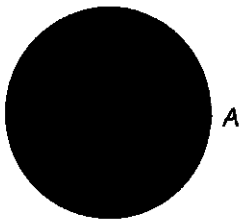
1. r = 8 inches



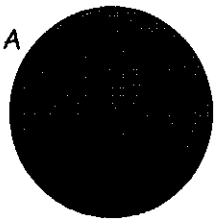
2. r = 4.5 inches



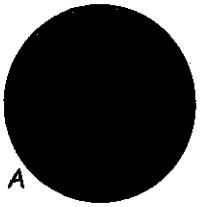
3. r = 6 feet



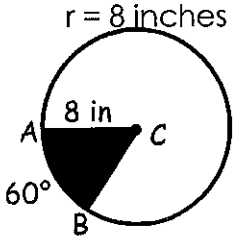
4. r = ½ yard



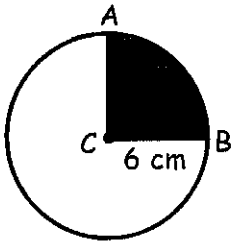
5. d = 21 inches



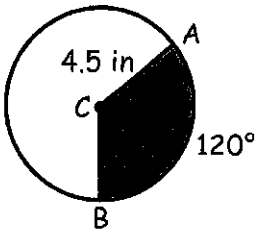
6. r = 8 inches



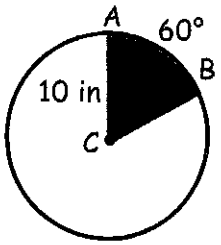
7.



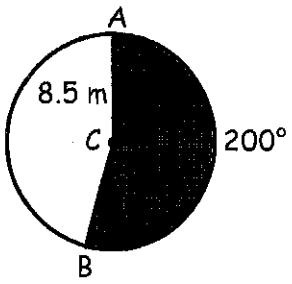
8.



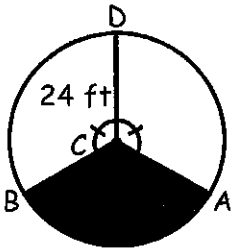
9.



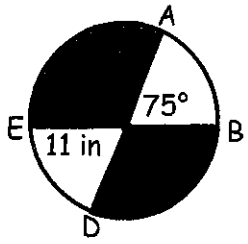
10.



11.



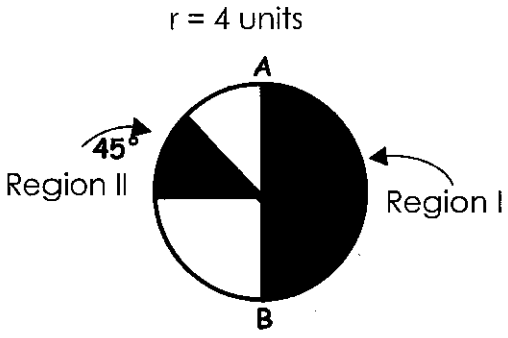
12.



Match the measure with its value.

13. $\overset{\frown}{mAB}$
14. Area of $\odot C$
15. Area of shaded region I
16. Area of shaded region II
17. Area of unshaded region

A. 2π units^2
B. 16π units^2
C. 6π units^2
D. $180°$
E. 8π units^2



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18. Find the area of a sector whose central angle is 36° if the radius of the circle is 8 cm.

19. Find the area of a sector whose central angle is 36° if the radius of the circle is 16 cm.

20. Based on your answers to 18 and 19, does doubling the radius of the circle double the area? If not, what effect does doubling the radius have on the area of the sector?