

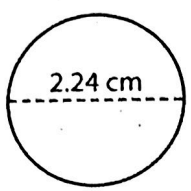
LESSON
9-2

Area of Circles

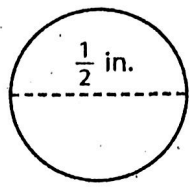
Practice and Problem Solving: C

Find the area of each circle in terms of π . Then find the area to the nearest tenth using 3.14 for π .

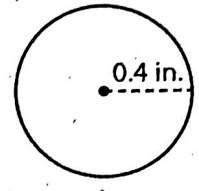
1.



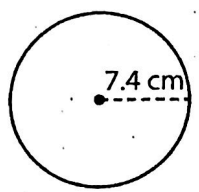
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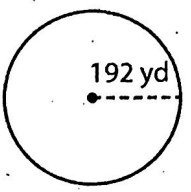
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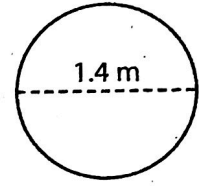
4.



5.



6.



Use the formula $C^2 = 4\pi A$ to find the area A of each circle in terms of π .

7. $C = 2\pi$

8. $C = 5\pi$

9. $C = 8\pi$

Solve.

10. A vanilla cake has a diameter of 8 inches. A chocolate cake has a diameter of 10 inches. What is the difference in area between the top surfaces of the two cakes? Use 3.14 for π .

11. What is the difference in area between a circle with a diameter of 3 meters and a square with a side length of 3 meters? Use 3.14 for π .
