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Perimeter, Circumference, and Area Assignment Part 6

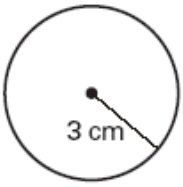
Match the key word with the descriptive phrase.

1. the set of all points in a plane that are the same distance from a given point, called the center
2. the distance from the center to a point on the circle
3. the distance across the circle, through the center
4. the distance around a circle
5. an angle of a circle whose vertex is the center of the circle
6. a region of a circle determined by two radii and a part of the circle

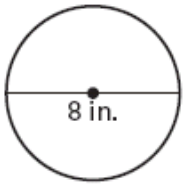
A. diameter
B. circumference
C. circle
D. radius
E. sector
F. central angle

In Exercises 7–11, use the formula $C = \pi d$ or the formula $C = 2\pi r$ to find the circumference of the circle. Round your answer to the nearest whole number.

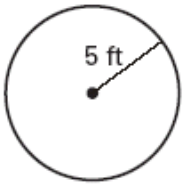
7.



8.



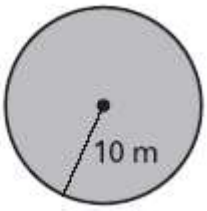
9.



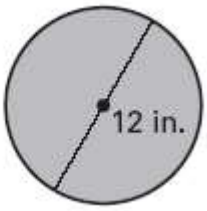
10. a circle with a radius of 2 yards

Find the area of the circle. Round your answer to the nearest whole number.

11.



12.



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Perimeter, Circumference, and Area Assignment Part 6

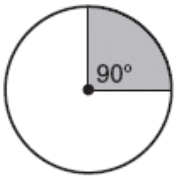
13. Find the radius of a circle with an area of 30 square units. Round your answer to the nearest whole number.

14. Find the diameter of a circle with an area of 50 square units. Round your answer to the nearest whole number.

***A* represents the area of the entire circle and *x* represents the area of the shaded sector. Complete the proportion used to find *x*. Do not solve the proportion.**

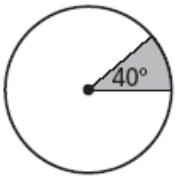
15. $A = 16\ \text{m}^2$

$\frac{x}{?} = \frac{?}{360°}$



16. $A = 18\ \text{ft}^2$

$\frac{x}{?} = \frac{?}{360°}$



The radius of the face of the clock is 5 inches.

17. Find the circumference of the face of the clock. Round your answer to the nearest whole number.

18. Find the area of the face of the clock. Round your answer to the nearest whole number.

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Perimeter, Circumference, and Area Assignment Part 6

ANSWERS

1. C

2. D

3. A

4. B

5. F

6. E

7. A = 19cm^2

8. A = 25in^2

9. A = 31ft^2

10. A = 13yd^2

11. A = 314m^2

12. A = 113in^2