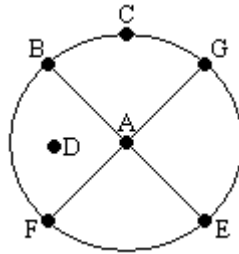
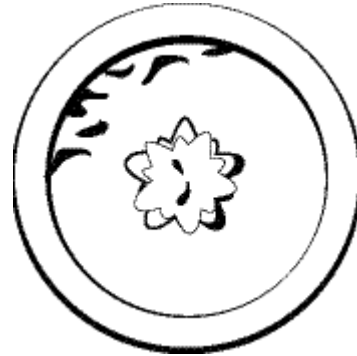


Questions 1 through 5 refer to this circle diagram:



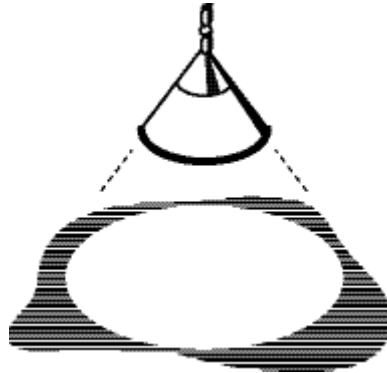
- The circumference of the circle...
 - is the area inside the circle.
 - is the distance from A to G.
 - is the distance all the way around the edge of the circle.
 - is the distance from B to E.
- Which answer choice shows a diameter of the circle shown above?
 - Line BG
 - Line FG
 - Line CD
 - Line AB
- Which answer choice shows a radius of the circle shown above?
 - Line AD
 - Line AF
 - Line BE
 - Line BC
- What is the center of the circle shown above?
 - Point A
 - Point B
 - Point C
 - Point D
- If the diameter of the circle shown were 10 units, then what would the radius of the circle be?
 - 10 units
 - 30 units
 - 5 units
 - 20 units

Questions 6 through 10 refer to the fountain pictured here. You are given a side view and a top view.



6. The distance from the middle of the fountain to the outside edge is the ____ of the fountain.
- A. circumference
 - B. center
 - C. radius
 - D. diameter
7. The outside stone edge forms the ____ of the fountain.
- A. circumference
 - B. area
 - C. diameter
 - D. radius
8. The water is spraying from the ____ of the fountain.
- A. radius
 - B. center
 - C. diameter
 - D. circumference
9. If the radius of the fountain is four feet, what is the distance from the middle of the fountain to the outside edge?
- A. 16 feet
 - B. 8 feet
 - C. 2 feet
 - D. 4 feet
10. If the diameter of the fountain is twelve feet, what is the distance from the center of the fountain to the outside edge?
- A. 6 feet
 - B. 12 feet
 - C. 24 feet
 - D. 38 feet

Questions 11 through 15 refer to the picture below. The hanging lamp shown casts a circle of light on the ground.



11. The point at the middle of the circle of illumination, directly under the hanging lamp, is the _____ of the circle.
- circumference
 - diameter
 - center
 - radius
12. If a line across the circle of illumination passed directly under the middle of the hanging lamp, the line would be a(n) _____ of the circle.
- radius
 - area
 - diameter
 - circumference
13. The distance from the point directly under the light bulb to the edge of the circle of illumination is called the _____.
- circumference
 - diameter
 - area
 - radius
14. If the illuminated circle is 4.5 feet at the widest point, then what is the radius of the circle?
- 18 feet
 - 2.25 feet
 - 4.5 feet
 - 9 feet
15. Suppose you want to place a table that is 3 feet square under the lamp. (Diagonally from corner to corner, the table measures roughly $4\frac{1}{4}$ feet.) At table height, the circle of illumination from the lamp has a radius of $2\frac{1}{2}$ feet. Can the light from the lamp illuminate the entire table, or will some of the table be in shadow?
- the light will shine on the middle of the table, but the edges will be in shadow
 - the light will shine on the center and edges of the table, but the corners will be in shadow
 - The light can cover the entire table
 - there is not enough information to be sure

Questions 16 through 20 refer to the wristwatch pictured here:



16. The numbers on the watch are lined up along the _____ of the watch face.
- A. center
 - B. circumference
 - C. diameter
 - D. radius
17. The hands of this watch are mounted at the _____ of the watch face.
- A. center
 - B. circumference
 - C. diameter
 - D. radius
18. The measure across the watch face from edge to edge, directly through the twelve and the six, is a(n) _____ of the watch face.
- A. diameter
 - B. circumference
 - C. radius
 - D. area
19. If the measure from the center of the watch face to the outside edge is half an inch, then the watch face has a(n) _____ of one inch.
- A. radius
 - B. area
 - C. circumference
 - D. diameter
20. If the diameter of the watch face were an inch and a half, then what would be the radius of the watch face?
- A. 3 inches
 - B. 3.4 inches
 - C. $\frac{3}{4}$ inch
 - D. 7 inches

Answer Key

1. C
2. B
3. B
4. A
5. C
6. C
7. A
8. B
9. D
10. A
11. C
12. C
13. D
14. B
15. C
16. B
17. A
18. A
19. D
20. C