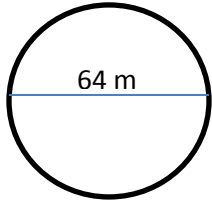


Circle Word Problems

1. An architect is making a plan for a new circular playground. If the picture below is the playground, how much fencing needs to go up to keep the kids in the circle?



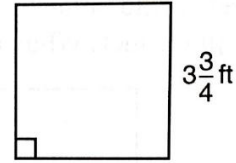
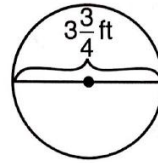
2. The first Ferris wheel was built in 1893 in Chicago. Its diameter was 250 feet. How many feet did the Ferris wheel rotate with one complete turn?

3. The circumference of a circle is 36.31 meters. What is the approximate length of the radius?

- A. 3 m
- B. 4 m
- C. 5 m
- D. 6 m

4. The circumference of a circle is 18.41 feet. What is the approximate length of the radius?

- A. 3 ft
- B. 5 ft
- C. 8 ft
- D. 7 ft



The drawings above represent the tablecloths Margot is thinking about buying. She plans to sew a decorative fringe on the tablecloth.

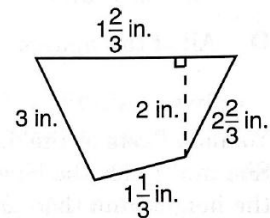
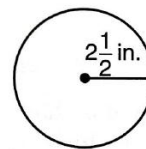
5. About how much fringe will Margot have to sew on the round tablecloth?

- A. 7 ft
- B. 8 ft
- C. 9 ft
- D. 12 ft

6. About how much fringe will Margot have to sew on the square tablecloth?

- A. 10 ft
- B. 12 ft
- C. 16 ft
- D. Not Here

6. About how many more inches is the circumference of the circle than the perimeter of the quadrilateral?



- A. 1 in.
- B. 2 in.
- C. 3 in.
- D. 6 in.

7. A bicycle trail in the shape of a circle has a diameter of 3 miles. Michelle biked around the trail 4 times. About how far did Michelle bike?

- A. 19 miles
- B. 28 miles
- C. 38 miles
- D. 113 miles

8. The outside radius of a truck tire is 11 inches. Approximately how far will the truck have traveled after 3 rotations of these tires?

9. The radius of a birthday cake is 5 inches. Icing will decorate the circumference of the cake. What procedure can be used to find the approximate circumference of the cake?

- A. Multiply 5 by 3.
- B. Multiply 5 by 2 and the product by 3.
- C. Multiply 5 by 5 and the product by 3.
- D. Multiply 5 by 3 and the product by 3.

10. Dawn bought a circular rug. The radius of the rug was 1.5 feet. How does the diameter of the rug compare to the radius?

- A. The diameter of the rug is twice the radius.
- B. The diameter of the rug is half the radius.
- C. The radius is twice the circumference.
- D. Not Here

11. It takes Kevin 5 minutes to jog once around a circular track that has a diameter of 400 meters. About how many meters per minute is Kevin jogging?

- A. About 250 meters per minutes.
- B. About 350 meters per minute.
- C. About 450 meters per minute.
- D. About 500 meters per minute.

12. Mr. Lewis designed a circular walkway in front of his house. The diameter of the walkway is about 6 feet long. How does the diameter of the walkway compare to its circumference?

- A. The diameter is about $\frac{1}{2}$ as large as the circumference.
- B. The diameter is about $\frac{1}{3}$ as large as the circumference.
- C. The diameter is about twice as large as the circumference.
- D. The diameter is about 3 times as large as the circumference.