

SHOW ALL WORK! *Write the formula first, when needed!*

1. Victor measured a circular lid and found d , the diameter, was 8 inches and C , the circumference, was 25 inches.

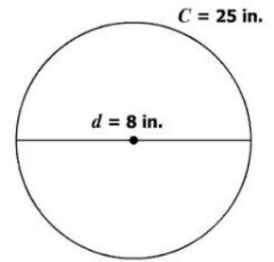
Which expression represents an approximate value for π ?

A $25 + 8$

C 25×8

B $25 \div 8$

D $25 - 8$



2. The diameter of a circular table is 6 feet. Which of the following is closest to the area of the tabletop?

A 113.04 square feet

C 18.84 square feet

B 28.26 square feet

D 9.42 square feet

3. The radius of a circular swimming pool is 7.8 meters. Which is closest to the circumference of this swimming pool?

A 24.49 m

C 48.98 m

B 47.76 m

D 191.04 m

4. A circular plate has a diameter of 11 inches. Which is closest to the area of this plate?

A 17.3 square inches

C 95.0 square inches

B 34.6 square inches

D 380.1 square inches

5. Leo is designing a circular table top with a diameter of 10 feet.

A. Which is closest to the circumference of this table top?

A 314.2 feet

C 31.4 feet

B 78.5 square feet

D 15.7 square feet

B. Which is the closest to the area of this table top?

A 314.2 feet

C 31.4 feet

B 78.5 square feet

D 15.7 square feet

6. Clinton purchased a circular rug to cover part of a floor. The diameter of the rug is 8 feet.

Rounded to the nearest whole number, what area of the floor will the rug cover? _____

7. A circular pool has a radius of 12 feet.

What is the **approximate** distance around the pool, **rounded to the nearest foot?** _____

Name: _____

Area Maze

Directions: Begin at the box under the large arrow. Choose the correct area for the shape shown and follow your choice to the next box. Continue through the maze until you reach the "END!" box. (You may only choose paths with arrows that point away from the box you are currently on.)

