

Answer all the questions

1. Which formula should be used to find the area of a quarter circle?

- a) $A = \pi r^2$
- b) $A = 2\pi r$
- c) $A = 0.5\pi r^2$
- d) $A = 0.25\pi r^2$

2. Dorji wants to build a quarter circle-shaped patio in her backyard. The radius of the patio is 6 meters. What will be the area of the quarter circle patio?

- a) 12π square meters
- b) 18π square meters
- c) 9π square meters
- d) 36π square meters

3. Dema wants to construct a quarter circle-shaped swimming pool. The pool's radius is 10 meters. If the area of the pool is 25π square feet, what is the length of its circumference?

- a) 20π meters
- b) 25π meters
- c) 50π meters
- d) 100π meters

4. Choden has a piece of land that is in the shape of a quarter circle. The area of the land is 49π square meters. What is the radius of the land?

- a) 7 meters
- b) 14 meters
- c) 21 meters
- d) 28 meters