

**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)  $12\pi$  square meters
- b)  $18\pi$  square meters
- c)  $9\pi$  square meters
- d)  $36\pi$  square meters

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

- a)  $20\pi$  feet
- b)  $25\pi$  feet
- c)  $50\pi$  feet
- d)  $100\pi$  feet

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

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