

Lecture 3
Geometry

Level: 1

1. A circular garden has a diameter of 10 meters. What is the circumference of the garden?

- A 31.4
- B 62.5
- C 3.14
- D 28.5

2. A cylindrical can has a radius of 4 cm and a height of 10 cm. What is the surface area of the can, including the top and bottom?

- A 234.9
- B 351.68
- C 245.6
- D 300

3. A cone has a radius of 5 cm and a height of 12 cm. What is the volume of the cone?

- A 300
- B 324.78
- C 314.16
- D 319.76

4. A square pyramid has a base side length of 6 meters and a height of 9 meters. What is the volume of the pyramid?

- A 98
- B 102
- C 105
- D 108

5. A right triangle has legs of length 3 cm and 4 cm. What is the length of the hypotenuse?

- A 5
- B 6
- C 10
- D 12

6. A ladder is leaning against a wall. The base of the ladder is 6 meters away from the wall, and the ladder reaches a height of 8 meters up the wall. How long is the ladder?

- A 9
- B 10
- C 16
- D 25

7. A rectangular field is 30 meters long and has a diagonal measurement of 34 meters. What is the width of the field?

- A 20
- B 18
- C 16
- D 12