

Name \_\_\_\_\_

## ANSWERS

# PERIMETER OF TRAPEZOIDS

Instructions: Calculate the perimeter of trapezoids in different everyday situations.

### Exercise 1: Trapezoid Swimming Pool

A trapezoid-shaped swimming pool has a shorter side of 18 meters, a longer side of 28 meters, and two equal sides measuring 12 meters each.

**Question:** How many meters of tile are needed to cover the perimeter of the pool?

**Solution:**

$$\text{Perimeter} = 18 \text{ m} + 28 \text{ m} + 12 \text{ m} + 12 \text{ m} = 70 \text{ meters}$$



### Exercise 2: Land Survey

A surveyor is measuring a trapezoid-shaped piece of land. The top side is 35 meters, the bottom side is 50 meters, and the two slanting sides are 20 meters and 25 meters.

**Question:** What is the total distance around the land?

**Solution:**

$$\text{Perimeter} = 35 \text{ m} + 50 \text{ m} + 20 \text{ m} + 25 \text{ m} = 130 \text{ meters}$$



### Exercise 3: Park Pathway

A trapezoid-shaped pathway in a park has a shorter edge of 10 meters, a longer edge of 22 meters, and both side edges measuring 8 meters each.

**Question:** How many meters of railing are needed to line the perimeter of the pathway?

**Solution:**

$$\text{Perimeter} = 10 \text{ m} + 22 \text{ m} + 8 \text{ m} + 8 \text{ m} = 48 \text{ meters}$$



How Did You Do? 😊 😐 😞