

Name \_\_\_\_\_

## ANSWERS

# PERIMETER OF TRAPEZOIDS

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

### Exercise 1: Garden plot

You are designing a garden in the shape of a trapezoid. The upper side is 8 meters long, the lower side is 12 meters long, the left side is 5 meters, and the right side is 6 meters.

**Question:** What is the total length of fence needed to surround the garden?

**Solution:**

$$\text{Perimeter} = 8 \text{ m} + 12 \text{ m} + 5 \text{ m} + 6 \text{ m} = 31 \text{ meters}$$



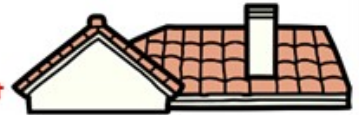
### Exercise 2: Rooftop

A building has a trapezoid-shaped rooftop. The shorter base (top side) is 15 feet, the longer base (bottom side) is 25 feet, and both sloping sides are 10 feet each.

**Question:** Calculate the total perimeter of the rooftop to determine how much material is needed for the edge protection.

**Solution:**

$$\text{Perimeter} = 15 \text{ ft} + 25 \text{ ft} + 10 \text{ ft} + 10 \text{ ft} = 60 \text{ feet}$$



### Exercise 3: Book Cover Design

A designer is creating a trapezoid-shaped book cover. The shorter edge is 20 cm, the longer edge is 30 cm, and both slanted sides are 15 cm each.

**Question:** Find the total length of the ribbon needed to wrap around the book cover.

**Solution:**

$$\text{Perimeter} = 20 \text{ cm} + 30 \text{ cm} + 15 \text{ cm} + 15 \text{ cm} = 80 \text{ cm}$$



How Did You Do? 😊 😐 😞