

Name _____

ANSWERS

PERIMETER OF TRAPEZOIDS

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

Exercise 1: Entrance Archway

An archway at the entrance of a park is shaped like a trapezoid. The top edge is 9 meters, the bottom edge is 15 meters, and both sides are 7 meters each.

Question: How much trim is needed to go around the entire archway?

Solution:

$$\text{Perimeter} = 9 \text{ m} + 15 \text{ m} + 7 \text{ m} + 7 \text{ m} = 38 \text{ meters}$$



Exercise 2: Display Stand

A trapezoid-shaped display stand at a store has a top side of 6 feet, a bottom side of 12 feet, and two equal sides measuring 5 feet each.

Question: Calculate the total length of material required to cover the edges of the display stand.

Solution:

$$\text{Perimeter} = 6 \text{ ft} + 12 \text{ ft} + 5 \text{ ft} + 5 \text{ ft} = 28 \text{ feet}$$



Exercise 3: Garden Bed

A trapezoid-shaped garden bed has a shorter side of 4 meters, a longer side of 10 meters, and two slanting sides of 6 meters each.

Question: How many meters of border fencing are required to surround the garden bed?

Solution:

$$\text{Perimeter} = 4 \text{ m} + 10 \text{ m} + 6 \text{ m} + 6 \text{ m} = 26 \text{ meters}$$



How Did You Do? 😊 😐 😞