ANSWERS
AREA OF TRAPEZOIDS

Instructions: Calculate the area of the Trapezoids in different everyday situations.

Exercise 1: The Cardboard Box

The hamburgers ordered for delivery come in a cardboard box with a base in the shape of a trapezoid, with a larger base of 16 cm, a smaller base of 12 cm, and a height of 15 cm.

Question: What is the area of the base of the cardboard box?

Solution:

Area = (16 cm + 12 cm) * 15 cm / 2
28 cm * 15 cm / 2
420 cm2 / 2
210 cm2

Exercise 2: The Lamp

Margot wants an orange fabric lamp in the shape of a trapezoid for her room. The front side has a larger base of 44 cm, a smaller base of 39 cm, and a height of 43 cm.

Question: What is the area of the front part of the lamp?

Solution:

Area = (44 cm + 39 cm) * 43 cm / 2
83 cm * 43 cm / 2
3569 cm2 / 2
1784,5 cm2

Exercise 3: Popcorn Packaging

The packaging of the popcorn we bought at the cinema has a base in the shape of a trapezoid. The larger base is 45 cm, the smaller base is 33 cm, and the height is 38 cm.

Question: What is the area of the base of the popcorn packaging?

Solution:

Area = (45 cm + 33 cm) * 38 cm / 2
78 cm * 38 cm / 2
2964 cm2 / 2
1482 cm2

How Did You Do? ☺ 😐 ☹