

ANSWERS

AREA OF RHOMBUS

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

Exercise 1: The Toy

Martin gave his brother, who turned 6 months old, a toy American football that lights up when squeezed. It has one diagonal of 25 cm and the other of 16 cm.

Question: What is the area of the toy?

Solution:

$$\text{Area} = 25 \text{ cm} * 16 \text{ cm} = 400 \text{ cm} / 2 = 200\text{cm}^2$$



Exercise 2: The Traffic Sign

In the city, they are restoring the traffic signs, and near my house, there is a rhombus-shaped sign that needs to be painted. It has one diagonal of 32 cm and the other of 18 cm.

Question: Can you calculate the area of the traffic sign to know how much paint is needed for restoration?

Solution:

$$\text{Area} = 32 \text{ cm} * 18 \text{ cm} = 576 \text{ cm} / 2 = 288\text{cm}^2$$



Exercise 3: The Flag

Andres lives in Brazil, and on Independence Day, he waves the flag, which has a yellow rhombus in the center with one diagonal of 55 cm and the other of 40 cm.

Question: What is the area of the rhombus printed on the flag?

Solution:

$$\text{Area} = 55 \text{ cm} * 40 \text{ cm} = 2200 \text{ cm} / 2 = 1100\text{cm}^2$$



How Did You Do?

