

ANSWERS

AREA OF RHOMBUS

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

Exercise 1: The Mask

For the school play, we designed masks in the shape of a rhombus using plaster and paint, with diagonals of 30 cm and 20 cm.

Question: What is the area of one of the masks?

Solution:

$$\text{Area} = 30 \text{ cm} * 20 \text{ cm} = 600 \text{ cm} / 2 = 300\text{cm}^2$$



Exercise 2: The Mirror

In the spa, there is a rhombus-shaped mirror where all the girls reflect and see their figure. The mirror has one diagonal of 3.5 meters and the other of 2 meters.

Question: What is the area of the mirror?

Solution:

$$\text{Area} = 3,5 \text{ m} * 2 \text{ m} = 7 \text{ m} / 2 = 3,5\text{m}^2$$



Exercise 3: Fishing Net

When my dad goes fishing at the river, he always brings a fishing net with many shapes in the form of rhombuses. Each shape has one diagonal of 2.8 cm and the other of 1.6 cm.

Question: What is the area of one of the shapes in the net?

Solution:

$$\text{Area} = 2,8 \text{ cm} * 1,6 \text{ cm} = 4,48 \text{ cm} / 2 = 2,24\text{cm}^2$$



How Did You Do? 😊 😐 😞