

# ANSWERS

## AREA OF RHOMBUS

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

### Exercise 1: The Pool

I invited my friends from school to my new house to enjoy the rhombus-shaped pool, which has one diagonal of 7 meters and the other of 3 meters.

**Question:** What is the area of the pool?

**Solution:**

$$\text{Area} = 7 \text{ m} * 3 \text{ m} = 21 \text{ m} / 2 = 10,5\text{m}^2$$



### Exercise 2: The Keychain

Carlos has been unable to open his school locker because he lost his keys, which were hanging from a rhombus-shaped keychain with diagonals of 4 cm and 2 cm.

**Question:** What is the area of the keychain?

**Solution:**

$$\text{Area} = 4 \text{ cm} * 2 \text{ cm} = 8 \text{ cm} / 2 = 4\text{cm}^2$$



### Exercise 3: The Tiles

My neighbor is remodeling his wall and installed rhombus-shaped tiles that match his furniture. The main tile has diagonals of 20 cm and 15 cm.

**Question:** What is the area of the main tile?

**Solution:**

$$\text{Area} = 20 \text{ cm} * 15 \text{ cm} = 300 \text{ cm} / 2 = 150\text{cm}^2$$



How Did You Do? 😊 😐 😞