

ANSWERS

AREA OF A CIRCLE

Instructions Calculate the area of the circle in different everyday situations.

Exercise 1: The Frisbee

Whenever Julio goes to the beach, he always brings a frisbee to play with his dog Bruno. The frisbee has a radius of 9 cm.

Question: What is the area of the frisbee?

Solution:

$$\begin{aligned} & 3,14 * (9) \text{ cm} * (9) \text{ cm} \\ & 3,14 * 81 \text{ cm}^2 \\ & \text{Area} = 254,34 \text{ cm}^2 \end{aligned}$$



Exercise 2: The Wheel of Fortune

My father's coworkers usually play at the casino on Fridays on the wheel of fortune, which has a radius of 1.5 m.

Question: What is the area of the wheel of fortune?

Solution:

$$\begin{aligned} & 3,14 * (1,5) \text{ m} * (1,5) \text{ m} \\ & 3,14 * 2,25 \text{ m}^2 \\ & \text{Area} = 7,065 \text{ m}^2 \end{aligned}$$



Exercise 3: The Sphere of Christmas

On the Christmas tree, there is a sphere with the name of each family member. José's sphere has a radius of 1.9 cm.

Question: What is the surface area of José's sphere?

Solution:

$$\begin{aligned} & 3,14 * (1,9) \text{ cm} * (1,9) \text{ cm} \\ & 3,14 * 3,61 \text{ cm}^2 \\ & \text{Area} = 11,3354 \text{ cm}^2 \end{aligned}$$



How Did You Do? 😊 😐 😞