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The Area of a Circle



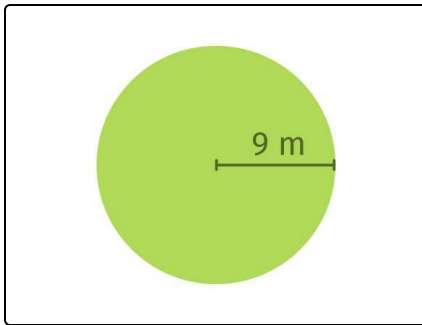
- 1 Understand how to apply the formula for the area of a circle.
- 2 Demonstrate your understanding of the area of a circle.
- 3 Determine the steps used to find the area of a circle.
- 4 Use a formula to find the area of a circle.
- 5 Apply the formula for the area of a circle.
- 6 Demonstrate your knowledge for calculating the area of a circle.
- + with many hints, answer keys, and solution approaches for all tasks



The complete package, including all tasks, hints, solutions, and solution approaches, is available to all subscribers of [sofatutor.com](https://www.sofatutor.com)

Understand how to apply the formula for the area of a circle.

Choose the correct answer.



Which equation would be used to find the area of a circle with a radius of 9 meters?

A

$$A = \pi(9 \times 2)$$

B

$$A = \pi(9^2)$$

C

$$A = 9\pi$$

D

$$A = \pi(18^2)$$

Our hints for the tasks

1
from 6

Understand how to apply the formula for the area of a circle.

1. Hint

$$A = \pi r^2$$

This is the formula used to find the **area of a circle**.

A = Area

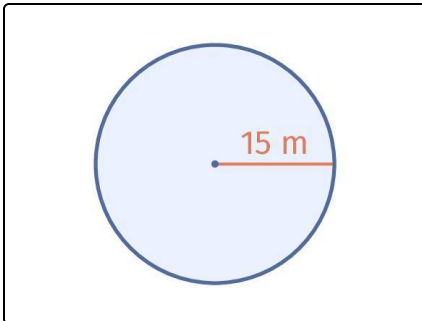
r = radius

2. Hint

r^2 means $r \times r$

For example if $r = 3$, $3^2 = 9$.

3. Hint



The radius in this circle is 15 m .

The formula used to find the area would be $A = \pi \times 15^2$.

Solutions and solution approaches for the tasks

1
from 6

Understand how to apply the formula for the area of a circle.

Answer key: B

$$r = 9 \text{ meters}$$

$$A = \pi(r^2)$$

Substitute the value for r into the formula.

$$A = \pi(9^2)$$