Circle Calculator

Calculate radius, diameter, area and circumference from one known circle measurement. The selected measurement determines whether the input is a length or an area.

Formula: diameter = 2r; area = pir^2; circumference = 2pir

INPUTS AND EXAMPLE VALUES

Known measurement: radius; choices: radius (Radius), diameter (Diameter), area (Area), circumference (Circumference)

Known value: 3

CHECK THE DEFAULT EXAMPLE

Radius: 3

Diameter: 6

Area: 28.274333882308

Circumference: 18.849555921539

LIMITS AND CONVENTIONS

The input must be positive.

pi-based outputs are numerical approximations; units are not inferred automatically.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/circle-calculator

OpenStax - Circle area and circumference: https://openstax.org/books/prealgebra-2e/pages/9-5-solve-geometry-applications-circles-and-irregular-figures

Display precision is for reporting; keep unrounded values for later calculations. Verify units and conventions. This reference does not replace institution, employer or network rules.