

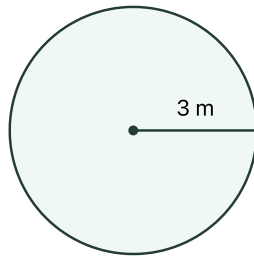
Area of a Circle Practice

Name: _____ Date: _____

Show your calculations, diagrams and explanations. Start with questions 1–2, then build toward the final challenge.

Public practice with published answers. This is not a full-topic readiness assessment.

1. A circle has radius 3 m. Find its area in terms of π and using $\pi \approx 3.14$.

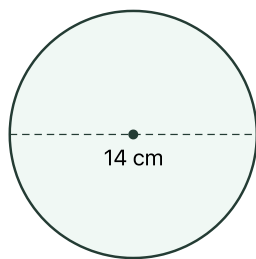


Drawing not to scale

Radius given

Show your work:

2. A circular plate has diameter 14 cm. Find its area, exactly and using $\pi \approx 3.14$.



Drawing not to scale

Plate diameter

Show your work:

3. A semicircular window has radius 5 cm. Find the area of the semicircle in terms of π and using 3.14.

Show your work:

4. One circle has radius 2 cm and another has radius 6 cm. Find the ratio of their areas, larger to smaller, and explain why it is not 3:1.

Show your work:

5. A circular ring has outer radius 8 m and inner radius 5 m. Sketch concentric circles and find the ring area exactly and using 3.14.

Show your work:

6. A square of side 12 cm contains an inscribed circle touching all four sides. Sketch the figure and find the area inside the square but outside the circle, using $\pi \approx 3.14$.

Show your work: