

Circles

Essential SLO: Students can understand the relationships between radius, diameter, circumference, and area.

Standard 7.G.4 Know the formulas for the area and circumference of a circle, and solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

Level 1	Level 2	Level 3	Level 4
- Students can identify(label) the parts of a circle: → Radius → Diameter → Circumference → Area	Students can recognize pi as the ratio of circumference to diameter.	Students can understand and use the relationships between radius, diameter, and circumference to find missing measures.	Students can understand and explain the relationships between radius, diameter, circumference, and area.

Example Questions

Level 1:

Identify the parts of a circle (the same picture will be shown four times, a different part emphasized, drag and drop the correct name to the identified part...diameter, area, radius, circumference)

Level 2:

The diameter of a pizza is 12 inches. What is the circumference of the pizza? (Use 3.14 as pi)

Level 3:

Jasmine measured the circumference and the diameter of a few food items in her kitchen. One of the measurements was inaccurate. Which is it? (Use 3.14 for pi)

Object	Circumference	Diameter
Cookie	18.84 cm	6 cm
Pizza	37.68 in	12 in
Pie	32.75 in	8 in

Level 4:

The circumference of a trampoline is 55ft. What is the area of the trampoline? (Use 3.14 for pi.)

