

Grade 7 Playlist: Area and Circumference of Circles

Aligns with [CCSS.MATH.CONTENT.7.G.B.4](#): Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

Related Standards

- [8.G.C.9](#): Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.
- [HSG.C.B.5](#): Derive using similarity the fact that the length of the arc intercepted by an angle is proportional to the radius, and define the radian measure of the angle as the constant of proportionality; derive the formula for the area of a sector.

PREVIEW



Objectives

In this playlist, you will learn and practice the following skills:

- Use formulas to find the circumference of a circle.
- Use a formula to find the area of a circle.
- Find the area of a circle when given the circumference or find the circumference of a circle when given the area.

Let's get started!

Key Terms

- The **area** is the amount of space inside of a two-dimensional shape.
- The **circumference** measures the length of the perimeter (outer edge) of a circle.
- The **radius** of a circle is the distance from the center to the edge of the circle.
- The **diameter** of a circle is the length of a segment that passes through the center and has endpoints on the circle. The diameter is always twice the length of the radius.

