

# Circumference and Arc Length

Instruction Active

## Exploring the Circumference of a Circle

Derive the formula for the circumference of a circle with radius  $r$  by following these steps.

- ✓ 1. Because all circles are similar, set up a proportion of the circumference to the diameter for the two circles shown in the diagram.

$$\frac{C_1}{d_1} = \frac{C_2}{d_2}$$

- ✓ 2. Suppose  $d_1 = 1$ . By definition, what is the circumference of the smaller circle?  $C_1 = \pi$  ✓

- ✓ 3. Suppose the radius of the larger circle is  $r$ . What is its diameter?

$$d_2 = 2r \quad \checkmark$$



Correct! You have completed this exercise.

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**ML Yell**



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