

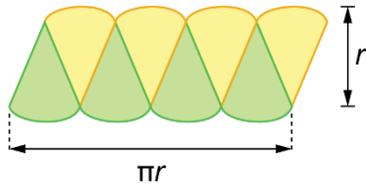
Activity 4 Assessment

Calculating the Area of a Circle

Calculating the Area of a Circle

Understands the relationships between radius, diameter, and area of a circle

I can make a polygon out of a circle by cutting the circle into equal segments and rearranging them into a parallelogram. Half the circumference, or πr , is the base and r is the height.



Calculates the area of a circle, given its radius

What is the area of a circle with radius of 2 cm?

I used the area formula for a circle.
 $3.14 \times 2^2 = 12.56$
 The area is about 12.56 cm².

Calculates the area of a circle, given its diameter

What is the area of a circle with diameter of 6 cm?

I found the radius first and then, the area.
 $6 \div 2 = 3$
 The radius is 3 cm.
 $3.14 \times 3^2 = 28.26$
 The area is about 28.26 cm².

Uses circle area formula to solve problems

Determine the area of a pizza with a circumference of 94.2 cm.

I found the diameter first, then the radius, and finally the area.
 $94.2 \div 3.14 = 30$
 The diameter is about 30 cm.
 $30 \div 2 = 15$
 The radius is about 15 cm.
 $3.14 \times 15^2 = 706.5$
 The area is about 706.5 cm².

Observations/Documentation