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| **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 r, 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 × 22 = 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 ÷ 2 = 3  The radius is 3 cm.  3.14 × 32 = 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 ÷ 3.14 = 30  The diameter is about 30 cm.  30 ÷ 2 = 15  The radius is about 15 cm.  3.14 × 152 = 706.5  The area is about 706.5 cm2. |
| **Observations/Documentation** | | | |
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