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| **Estimating and Determining the Area of a Circle** | | | |
| Understands the relationships between radius, diameter, and area of a circle  I can cut the circle into equal sections and rearrange them into a rectangle. Half the circumference,  or π*r*, is the length and *r* is the width. | 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 is12.56 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 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.  *d* = *C* ÷ π = 94.2 ÷ 3.14  = 30  The diameter is 30 cm.  30 ÷ 2 = 15  The radius is 15 cm.  *A* = π*r*2 = 3.14 × 152  = 706.5  The area is 706.5 cm2. |
| **Observations/Documentation** | | | |
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