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| **Determining Area** |
| Understands area as an attribute of 2-D shapes that can be measured and compared. *A* = *b × h**A* = 12 m × 7 m*A* = 84 m2“I determined the area of the rectangle by multiplying the length of the base by the height.” | Determines area by decomposing shapes into smaller shapes, then adding their areas.“I decomposed the trapezoid into a rectangle and 2 triangles.Area of rectangle: 4 cm × 5 cm= 20 cm2Area of each triangle: 3 cm × 5 cm ÷ 2 = 7.5 cm2.Area of trapezoid: 20 cm2 + 7.5 cm2 + 7.5 cm2 = 35 cm2.” | Determines area by composing and decomposing shapes into shapes with known area formulas. “I doubled the trapezoid to make a parallelogram. I know the area of the trapezoid is one-half the area of the parallelogram: (13 + 7) × 10 ÷ 2 = 20 × 10 ÷ 2 = 100. The area of the trapezoid is 100 cm2.” | Flexibly composes/decomposes composite polygons and irregular shapes to solve problemsA garden is shaped like a rhombus. The perimeter of the garden is 60 m.The height of the rhombus is 11 m.What is the area of the garden?“Side length of rhombus: 60 m ÷ 4 = 15 m. A rhombus is a parallelogram with all sides equal. So, to find the area of the rhombus, I use this formula: *A = b × h*; 15 m × 11 m = 165 m2. The area of the garden is 165 m2.” |
| **Observations/Documentation** |
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