Activity 2 Assessment
Determining Area

| Determining Area |  |  |  |
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| Understands area as an attribute of 2-D shapes that can be measured and compared. $\begin{gathered} A=b \times h \\ A=12 \mathrm{~m} \times 7 \mathrm{~m} \\ A=84 \mathrm{~m}^{2} \end{gathered}$ <br> "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. <br> "I decomposed the trapezoid into a rectangle and 2 triangles. <br> Area of rectangle: <br> $4 \mathrm{~cm} \times 5 \mathrm{~cm}=20 \mathrm{~cm}^{2}$ <br> Area of each triangle: <br> $3 \mathrm{~cm} \times 5 \mathrm{~cm} \div 2=7.5 \mathrm{~cm}^{2}$. <br> Area of trapezoid: $\begin{gathered} 20 \mathrm{~cm}^{2}+7.5 \mathrm{~cm}^{2}+7.5 \mathrm{~cm}^{2} \\ =35 \mathrm{~cm}^{2} . \end{gathered}$ | Determines area by composing and decomposing shapes into shapes with known area formulas. <br> "I doubled the trapezoid to make a parallelogram. <br> I know the area of the trapezoid is one-half the area of the parallelogram: $(13+7) \times 10 \div 2$ $=20 \times 10 \div 2=100$. The area of the trapezoid is $100 \mathrm{~cm}^{2}$." | Flexibly composes/decomposes composite polygons and irregular shapes to solve problems <br> A 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? <br> "Side length of rhombus: $60 \mathrm{~m} \div 4=15 \mathrm{~m}$. A rhombus is a parallelogram with all sides equal. So, to find the area of the rhombus, I use this formula: $A=b \times h ; 15 \mathrm{~m} \times 11 \mathrm{~m}=165 \mathrm{~m}^{2}$ <br> The area of the garden is $165 \mathrm{~m}^{2}$." |
| Observations/Documentation |  |  |  |
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