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| **Evaluating Algebraic Expressions** | | | |
| Recognizes expressions with variables in formulas, including understanding a variable as a changing quantity  “The expression *l* × *w* is the formula for the area of a rectangle, where *l* is the length of the rectangle and *w* is the width.” | Evaluates expressions with variables in formulas  How can you find the area of a rectangle with length 15 cm and width 8 cm?  “I used the formula *A* = *l* × *w*.  I substituted 15 cm for *l* and 8 cm  for *w*.  *A* = *l* × *w*  = 15 cm × 8 cm  = 120 cm2  The area is 120 cm2. | Evaluates algebraic expressions without relating to a visual model  or real-world situation  How can you determine the value of the expression 3*x* + *y* when *x* = 2.5 and *y* = 3.5?  “I substituted the values for the variables and then did the calculations.  3*x* + *y* = 3(2.5) + (3.5)  = 7.5 + 3.5  = 11” | Solves problems that involve writing and evaluating algebraic expressions  I want to fence a rectangular area that is 5 m long and 3 m wide for a pet dog. How can I determine the perimeter of this rectangle?  “I know the formula for the perimeter of a rectangle is *P* = 2*l* + 2*w*.  I substituted 5 m for *l* and 3 m for *w*, then did the calculations.  *P* = 2*l* + 2*w*  = 2(5 m) + 2(3 m)  = 10 m + 6 m  = 16 m  The dog’s area has a perimeter  of 16 m.” |
| **Observations/Documentation** | | | |
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