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**Writing Equations to Describe Functional Relationships (Verbal → Equation)**

**Name:**

**Date:**

**Vocabulary Review:**

In your own words, define each of the following vocabulary terms.

- Equation
- Variable
- Constant
- Linear Function
- Slope-Intercept Form
- Coefficient
- Addend

**Apply New Learning:**

1. What kinds of strategies can be used to identify the starting point and rate of change when given a problem situation?
2. When should slope-intercept form be used to write an equation for a problem situation?
3. When should standard form be used to write an equation for a problem situation?
4. Your school's baseball team will sell candy bars to raise money. The candy bars cost the team a one-time fee of \$50 and then \$0.50 per candy bar. Write an equation that can be used to find the number of candy bars the team can purchase if they have \$200 to spend.

5. The baseball team plans to sell each candy bar for \$3.00. Write an equation that can be used to find the number of candy bars the team must sell to make \$600.

6. Wyatt received a paycheck of \$650. This amount reflects his weekly earnings minus 10% of his earnings for deductions. Write an equation that can be used to find out how much he was paid before deductions were taken out.

7. Maria has a board that is 88 inches long. She wants to cut the board into two pieces so that one piece will be 6 inches longer than the other. Write an equation that can be used to find the length of the shorter piece.

8. Describe two different situations that could be described by the following equation:

$$y = 3x + 9$$