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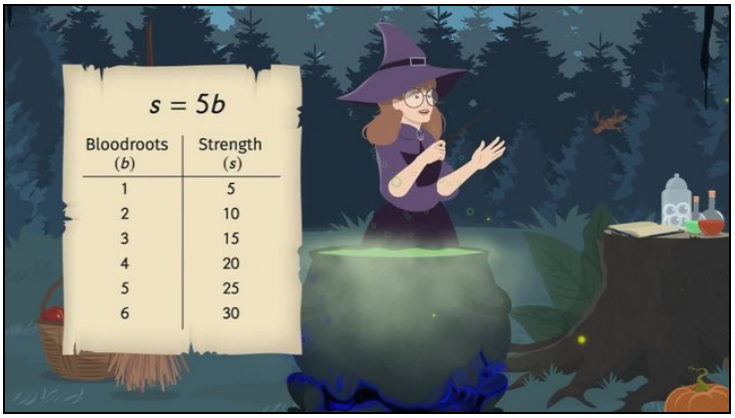
Problems in Mathematical Terms



1. **Determine which of the following are independent or dependent variables, or constant terms.**
2. Identifying independent and dependent variables to write and evaluate equations.
3. Decide which statements about variables and constants are true.
4. Identify the dependent and independent variables.
5. Find the parts of the story which correspond to different mathematical terms.
6. Set up the linear equation.

\+ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

Determine which of the following are independent or dependent variables, or constant terms.

Match the mathematical terms with the correct examples.

Constant Term	A
Dependent Variable	B
Independent Variable	C
Variables	D

1	The 3 in $y = 2x + 3$
2	The x in $y = 7x + 1$
3	The 2 in $y = 2x + 3$
4	The y in $y = 6x$
5	The x and y in $y = -2x$

Hints for solving these problems

1 of 6

Determine which of the following are independent or dependent variables, or constant terms.

Hint #1

In mathematics, a constant term is a term in an algebraic expression that has a value that is constant or cannot change. This is because it stands alone, and does not contain any variables.

Hint #2

Independent variables are freely chosen and do not depend on any other variable.

Hint #3

Dependent variables are determined by the independent variables.

Answers and detailed answer explanations for these problems

1 of 6

Determine which of the following are independent or dependent variables, or constant terms.

Answer key: A—1 // B—4 // C—2 // D—5

1. Constant Term

- 3 in $y = 2x + 3$
- 3 is the only term that never changes in the equation and therefore called a **constant term**. No matter what the values x and y are, 3 will *never* change.
- The 2, in $y = 2x + 3$, is the coefficient of x.

2. Dependent Variable

- The y in $y = 6x$.
- The y is the **dependent variable** because it changes based on x.
- For example, if we choose x to be 2, then $y = 6(2)$ which is 12.
- If we choose x to be -3, then $y = 6(-3)$ which is -18.
- Therefore, y is dependent on the independent variable, x.

3. Independent Variable

- The x in $y = 7x + 1$.
- The x is called the **independent variable** because we can freely choose its value and it is not determined by any other variable.
- For example, we can choose x to be 1, $\frac{1}{2}$, -2, and so on, to find as many values as we want for y.

4. Variables

- The x and y in $y = -2x + 9$.
- The x and y are called **variables** because they can change or vary.