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Evaluating Expressions

The illustration shows Rap-Punzel with long purple hair. To her left, a purple hair bun is labeled '50', a yellow hairbrush is labeled '30', and a small yellow box is labeled '5'. The number '12' is written on her black dress. To her right, the equation $5x + 50$ is displayed. Below the equation is a table:

x	1	2	3	4	5	6
length	55	60	65	70	75	80

- 1 Label the different parts of the expression.
- 2 Calculate the length of hair after given number of months.
- 3 Find an equation that represents Rap-Punzel's hair length after x months.
- 4 Evaluate how long Rap-Punzel's hair is after one year.
- 5 Determine how long it takes until the magic beanstalk grows to a height of 100 inches.
- 6 Decide which function table belongs to which equation.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.



The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



Label the different parts of the expression.

Fill in the blanks.

fraction

operation sign

denominator

constant

coefficient

variable

The diagram shows the expression $5x + 50$ in large black font. Three callout boxes are connected to parts of the expression by thin lines:

- Box 1 points to the number 5.
- Box 2 points to the letter x.
- Box 3 points to the number 50.



Hints for solving these problems

1
of 6

Label the different parts of the expression.

Hint #1

A constant is independent of the variable.

Hint #2

The term above represents the length of Rap-Punzel's hair after x months.

In the beginning, Rap-Punzel's hair is 50 inches long.



Answers and detailed answer explanations for these problems

1
of 6

Label the different parts of the expression.

Answer key: 1: coefficient // 2: variable // 3: constant

$$5x + 50$$

This expression represents the length of Rap-Punzel's hair after x months.

- The coefficient to the variable is the rate of growth, 5.
- x represents the unknown number of months.
- Finally, our constant is the starting length of her Rap-Punzel's hair in inches, 50.