



Writing Equations Math 7/7+

 Writing Equations Notes 

Fill in each box with the key words that signal each operation/symbol.

Addition	
Subtraction	
Multiplication	
Division	
Equal Sign	

Let's review writing expressions

- 5 more than the sum of a number and 12.
- 4 times of the sum of a number and 8.
- 6 more than the quotient of a number and 15.
- 10 less than the sum of a number and 2.

Writing equations is very similar. All you have to include is an equal sign. Let's practice!

- 6 less than a number is 18.
- The quotient of 7 and a number is 28.
- The sum of a number and 20 is 8.
- 5 less than half a number is 40.
- 25 is four more than a number.

Writing Equations Practice

The sum of 21 and number is 30

5 less than the product of 5 and a number is 22.

15 plus the difference of 10 and a number is 15

Three times the difference of a number and 9 is 5.

The product of 10 and the difference of a number and 14 is 90.

The quotient of a number and 2 is 20.

Notes - Application Problems 7 and 7+ (Variable one-side).notebook

Jose is joining a gym. He pays \$20 each month plus \$3 for each aerobic class. He spent \$35 last month. How many aerobic classes did Jose attend?

Define your variable: _____

Equation: _____

How many classes: _____

Admission to the circus costs \$4 plus \$0.50 per ride. Ella spent \$17.50 at the circus. How many rides did Ella go on?

Define your variable: _____

Equation: _____

How many rides: _____

Another website allows you to download songs for \$0.75 each, but you pay a sign up fee of \$15. Write an equation relating the total cost (c) to the number of songs (s) you download.

Define your variable: _____

Write the equation: _____

How much would 50 songs cost on this website?

Some cell phone companies offer a cheaper data plan, but you have to pay a one time sign up fee. The sign up fee is \$375 and the cost is \$25 per month. Write an equations relating the total cost (c) to the number of months (m) you have this data plan.

Define your variable: _____

Equation: _____

What is the total cost of your cell phone plan for 12 months?

You return a book that is 5 days overdue. Including a previously unpaid overdue balance of \$1.30, your new balance is \$2.05. What is the fine for a book that is one day overdue?

Define the variable: _____

Equation: _____

Solution: _____

Writing & Solving Equations

Write and solve an equation for each situation.

You are buying bottles of glue for Mrs. Perry's class. A bottle of glue is \$0.74. Write an equation relating the total cost (c) to the number of glue bottles (g) you purchase.

Define your variable: _____

Equation: _____

What is the total cost if you purchase 7 bottles of glue?

5 times the sum of a number and negative 12 is equal to -40. What is the number?

Define the variable: _____

Equation: _____

Solution: _____

Johnny has three more than twice the number of stickers that Jane has. If all together, they have 51 stickers, how many does each person have?

Define the variable: _____

Equation: _____

Solution: _____