

Algebraic Equations (Speedy Study Guides: Academic)

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ALGEBRAIC EQUATIONS

Writing Algebraic Equations

Problem: Leanne has \$17 in her piggy bank. How much money does she need to buy a game that costs \$48?

Solution: Let x represent the amount of money Leanne needs. Then the following equation can represent this problem.

$$17 + x = 48$$

We can subtract 17 from both sides of the equation to find the value of x .

$$48 - 17 = x$$

Answer: $x = 31$, so Leanne needs \$31 to buy the game.

In the problem above, x is a variable. The symbols $17 + x = 48$ form an algebraic equation. Let's look at some examples of writing algebraic equations.

Example 1: Write each sentence as an algebraic equation.

Sentence	Algebraic Equation
A number increased by nine is fifteen.	$x + 9 = 15$
Twice a number is eighteen.	$2x = 18$
Four less than a number is twenty.	$x - 4 = 20$
A number divided by six is eight.	$\frac{x}{6} = 8$

Example 2: Write each sentence as an algebraic equation.

Sentence	Algebraic Equation
Twice a number, decreased by twenty-nine, is seven.	$2x - 29 = 7$
Thirty-two is twice a number increased by eight.	$32 = 2x + 8$
The quotient of fifty and five more than a number is ten.	$\frac{50}{x+5} = 10$
Twelve is sixteen less than four times a number.	$12 = 4x - 16$

Example 3: Write each sentence as an algebraic equation.

Sentence	Algebraic Equation
Diana is x years old. In thirty-two years she will be twenty-four years old.	$x + 32 = 24$
Each piece of candy costs 25 cents. The price of 6 pieces of candy is \$2.00.	$25(6) = 200$
Sebastian made a withdrawal of d dollars from his savings account. His old balance was \$350, and his new balance is \$280.	$350 - d = 280$
A large pizza pie with 13 slices is shared among p students so that each student's share is 7 slices.	$\frac{13}{p} = 7$

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Reviews

This written publication is fantastic. I am quite late in start reading this one, but better then never. You will not feel monotony at at any time of your respective time (that's what catalogues are for concerning should you ask me).

(Tevin McClure)

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