

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 \$49?

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

$$17 + x = 49$$

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

$$69 - 17 = x$$

Answer: $x = 32$, so Leanne needs \$32 to buy the game.

In the problem above, x is a variable. The symbols $17 + x = 49$ 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. | $n + 9 = 15$ |
| Twice a number is eighteen. | $2n = 18$ |
| Four less than a number is twenty. | $n - 4 = 20$ |
| A number divided by six is eight. | $\frac{n}{6} = 8$ |

Example 2: Write each sentence as an algebraic equation.

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

Example 3: Write each sentence as an algebraic equation.

| Sentence | Algebraic Equation |
|---|--------------------|
| Fiona 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 \$1.50. | $25n = 150$ |
| Sebastian made a withdrawal of 4 dollars from her savings account. Her old balance was \$356, and her new balance is \$350. | $356 - d = 350$ |
| A large pizza pie with 12 slices is shared among p students so that each student's share is 7 slices. | $\frac{12}{p} = 7$ |

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Reviews

These types of publication is the ideal ebook readily available. It can be loaded with wisdom and knowledge Its been developed in an extremely simple way and it is just following i finished reading through this publication in which actually altered me, affect the way i believe.

(Ms. Lura Jenkins)

ALGEBRAIC EQUATIONS (SPEEDY STUDY GUIDES: ACADEMIC)



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