Two-Step Equations Worksheets

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Part 1: Building a Foundation

What is the first step in solving a two-step equation of the form $ax + b = c$?

Hint: Think about how to isolate the variable.

◯ A) Divide both sides by a

◯ A) Add b to both sides

◯ C) Subtract b from both sides

◯ D) Multiply both sides by a

What is the first step in solving a two-step equation of the form $ax + b = c$?

Hint: Identify the operation that needs to be reversed first.

◯ A) Divide both sides by a

◯ A) Add b to both sides

◯ A) Subtract b from both sides

◯ A) Multiply both sides by a

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Which of the following are examples of two-step equations?

Hint: Look for equations that involve two operations to isolate the variable.

☐ A) $2x + 3 = 7$

☐ A) $x^2 + 4 = 20$

☐ C) $5x - 9 = 16$

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☐ D) $x/2 + 1 = 5$

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☐ A) $x^2 + 4 = 20$
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Explain why it is important to perform the same operation on both sides of a two-step equation.

Hint: Consider the properties of equality.

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Explain why it is important to perform the same operation on both sides of a two-step equation.

List the two operations typically used to solve a two-step equation and provide a brief description of each.

Hint: Think about the order of operations.

1. Operation 1

2. Operation 2

Part 2: Understanding and Interpretation

What is the purpose of isolating the variable in a two-step equation?

Hint: Consider what you need to find.

○ A) To simplify the equation
○ A) To find the value of the variable
○ C) To eliminate constants
○ D) To check the solution

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○ A) To check the solution

What is the purpose of isolating the variable in a two-step equation?

○ A) To simplify the equation
○ A) To find the value of the variable
○ C) To eliminate constants
○ D) To check the solution

Which of the following statements are true about solving two-step equations?

Hint: Think about the process of solving equations.

☐ A) You always start by dividing both sides by the coefficient of the variable.
☐ A) You can check your solution by substituting it back into the original equation.
☐ C) The order of operations is not important when solving two-step equations.
☐ D) Solving two-step equations involves reversing the operations applied to the variable.

Which of the following statements are true about solving two-step equations?

Hint: Consider the steps involved in solving equations.

☐ A) You always start by dividing both sides by the coefficient of the variable.
☐ A) You can check your solution by substituting it back into the original equation.
☐ A) The order of operations is not important when solving two-step equations.
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Describe a real-world scenario where solving a two-step equation would be necessary.

Hint: Think about situations involving budgeting or measurements.

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Part 3: Application and Analysis

Solve the equation \(4x + 5 = 21 \). What is the value of \(x \)?

Hint: Isolate \(x \) by performing inverse operations.

○ A) 3
○ A) 4
○ C) 5
○ D) 6

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Solve the equation \(4x + 5 = 21 \). What is the value of \(x \)?

○ A) 3
○ A) 4
○ C) 5
○ D) 6

You have a budget of $50 to buy notebooks and pens. Notebooks cost $4 each, and pens cost $2 each. If you buy 5 notebooks, how many pens can you buy?

Hint: Calculate the total cost of notebooks first.

☐ A) 5 pens
☐ A) 10 pens
☐ C) 15 pens
☐ D) 20 pens

You have a budget of $50 to buy notebooks and pens. Notebooks cost $4 each, and pens cost $2 each. If you buy 5 notebooks, how many pens can you buy?

Hint: Calculate the remaining budget after buying notebooks.

☐ A) 5 pens
☐ A) 10 pens
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☐ D) 20 pens

Create a two-step equation to represent the following situation: You have $100. You spend $20 on a book and want to save the rest to buy $10 movie tickets. How many tickets can you buy?

Hint: Think about how to express the situation mathematically.

Create a two-step equation to represent the following situation: You have $100. You spend $20 on a book and want to save the rest to buy $10 movie tickets. How many tickets can you buy?

Hint: Set up the equation based on your spending and saving.

Create a two-step equation to represent the following situation: You have $100. You spend $20 on a book and want to save the rest to buy $10 movie tickets. How many tickets can you buy?

Which operation would you perform first to solve the equation $3x - 4 = 11$?

Hint: Consider the order of operations.

○ A) Add 4 to both sides

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○ A) Subtract 4 from both sides
○ C) Divide both sides by 3
○ D) Multiply both sides by 3

Which operation would you perform first to solve the equation $3x - 4 = 11$?

Hint: Consider the order of operations.

○ A) Add 4 to both sides
○ A) Subtract 4 from both sides
○ A) Divide both sides by 3
○ A) Multiply both sides by 3

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○ A) Add 4 to both sides
○ A) Subtract 4 from both sides
○ C) Divide both sides by 3
○ D) Multiply both sides by 3

Part 4: Evaluation and Creation

If the solution to the equation $6x - 9 = 15$ is $x = 4$, evaluate the correctness of this solution.

Hint: Substitute x back into the original equation.

○ A) Correct
○ A) Incorrect
○ A) N/A
○ A) Maybe

After solving the equation $7x + 2 = 30$, you find $x = 4$. Which of the following could be reasons for an incorrect solution?

Hint: Consider common mistakes made during calculations.

☐ A) Incorrect subtraction of 2 from both sides
☐ A) Incorrect division by 7
☐ C) Incorrect addition of 2 to both sides
☐ D) Incorrect multiplication by 7

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Create a real-world problem that can be solved using a two-step equation. Provide the equation and solve it.

Hint: Think about everyday situations that involve calculations.

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