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One Step Equations Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is a one step equation?

undefined. A) An equation that requires multiple operations to solve

undefined. B) An equation that can be solved in a single operation ✓

undefined. C) An equation with no variables

undefined. D) An equation that cannot be solved

A one step equation can be solved in a single operation.

Which of the following operations can be used to solve one step equations?

undefined. A) Addition ✓

undefined. B) Subtraction ✓

undefined. C) Multiplication ✓

undefined. D) Division ✓

Addition, subtraction, multiplication, and division can all be used.

Explain why it is important to perform the same operation on both sides of an equation.

Perform the same operation on both sides to keep the equation balanced.

List the inverse operations for the following:

1. Addition

Subtraction

2. Subtraction

Addition

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3. Multiplication
Division

4. Division
Multiplication

The inverse operations are: Addition - Subtraction, Subtraction - Addition, Multiplication - Division, Division - Multiplication.

Part 2: comprehension and Application

If x + 7 = 10, what operation would you use to solve for x?

undefined. A) Addition

undefined. B) Subtraction ✓

undefined. C) Multiplication

undefined. D) Division

You would use subtraction to isolate x.

Which of the following equations can be solved by division?

undefined. A) 3x = 12 ✓

undefined. B) x - 5 = 10

undefined. C) x + 8 = 15

undefined. D) x/4 = 2 ✓

The equation 3x = 12 and x/4 = 2 can be solved by division.

Create a real-world scenario where solving a one step equation would be necessary. Explain the situation and the equation used.

A scenario could involve budgeting, where you need to find out how much money you have left after spending.

Solve the equation x - 9 = 4. What is the value of x?

undefined. A) 5

undefined. B) 13 ✓

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undefined. C) -5

undefined. D) 9

The value of x is 13.

Part 3: Analysis, Evaluation, and Creation

Which property of equality is used when solving the equation x + 5 = 12 by subtractING 5 from both sides?

undefined. A) ReflexIVE Property

undefined. B) Symmetric Property

undefined. C) Transitive Property

undefined. D) Subtraction Property of Equality ✓

The Subtraction Property of Equality is used.

Analyze the following equations and identify which ones are incorrectly solved:

undefined. A) x + 4 = 9 → x = 5 ✓

undefined. B) 2x = 8 → x = 4

undefined. C) x - 3 = 2 → x = 1 ✓

undefined. D) x/5 = 3 → x = 15

The incorrectly solved equations are C) and A).

Explain how you would solve the equation 5x = 20 and why the method works.

You would divide both sides by 5 to isolate x, which works because of the properties of equality.

Evaluate the solution of the equation x + 6 = 14. What is the correct value of x?

undefined. A) 8 ✓

undefined. B) 20

undefined. C) 14

undefined. D) 6

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The correct value of x is 8.

Which of the following solutions are correct for the given equations?

undefined. A) x - 4 = 10 → x = 14 ✓

undefined. B) 3x = 9 → x = 3 ✓

undefined. C) x + 7 = 15 → x = 8

undefined. D) x/2 = 4 → x = 8 ✓

The correct solutions are A), B), and D).

Design a one step equation problem that involves a real-life context, such as budgeting or cooking. Describe the problem and provide the solution.

A problem could involve calculating how much money is left after spending a certain amount.

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