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One Step Equations Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is a one step equation?

Hint: Think about the number of operations needed to solve it.

◯ A) An equation that requires multiple operations to solve
◯ **B) An equation that can be solved in a single operation ✓**
◯ C) An equation with no variables
◯ 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?

Hint: Consider the basic arithmetic operations.

☐ **A) Addition ✓**
☐ **B) Subtraction ✓**
☐ **C) Multiplication ✓**
☐ **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.

Hint: Think about maintaining balance in the equation.

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

List the inverse operations for the following:

Hint: Think about how to reverse each operation.

1. Addition

> ## Subtraction

___

2. Subtraction

> ## Addition

___

3. Multiplication

> ## Division

___

4. Division

> ## Multiplication

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> 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?

Hint: Think about how to isolate x.

○ A) Addition
○ **B) Subtraction ✓**
○ C) Multiplication
○ D) Division

> You would use subtraction to isolate x.

Which of the following equations can be solved by division?

Hint: Look for equations that involve multiplication.

☐ **A) 3x = 12 ✓**
☐ B) x - 5 = 10
☐ C) x + 8 = 15
☐ **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.

Hint: Think about everyday situations that involve solving for an unknown.

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> **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?

Hint: Think about what you need to add to 9 to get 4.

○ A) 5
○ **B) 13 ✔**
○ C) -5
○ 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?

Hint: Consider the rules that govern equality.

○ A) ReflexIVE Property
○ B) Symmetric Property
○ C) Transitive Property
○ **D) Subtraction Property of Equality ✔**

> The Subtraction Property of Equality is used.

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

Hint: Look for mistakes in the solutions provided.

☐ **A) x + 4 = 9 → x = 5 ✔**
☐ B) 2x = 8 → x = 4
☐ **C) x - 3 = 2 → x = 1 ✔**
☐ 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.

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Hint: Think about isolating x and the operations involved.

> **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?

Hint: Think about what you need to subtract from 14.

◯ **A) 8** ✓
◯ B) 20
◯ C) 14
◯ D) 6

> The correct value of x is 8.

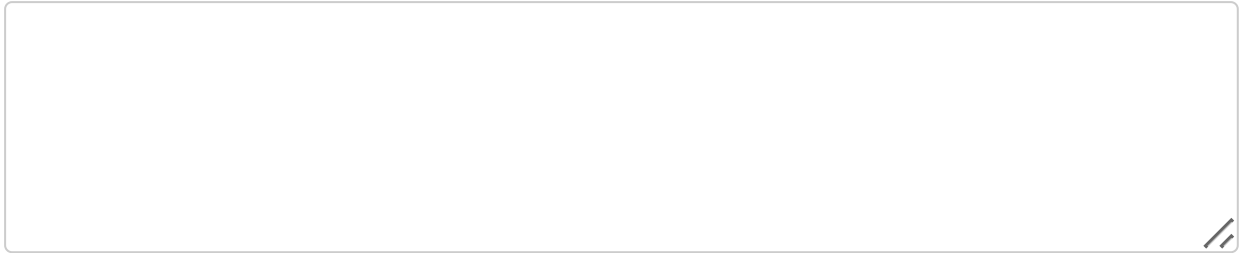**Which of the following solutions are correct for the given equations?**

Hint: Evaluate each solution carefully.

☐ **A) x - 4 = 10 → x = 14** ✓
☐ **B) 3x = 9 → x = 3** ✓
☐ C) x + 7 = 15 → x = 8
☐ **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.

Hint: Think about everyday situations that involve solving for an unknown.

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

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