

One Step Equations Worksheet

One Step Equations Worksheet

Disclaimer: The one step equations worksheet was generated with the help of StudyBlaze Al. Please be aware that Al can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

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 solveB) An equation that can be solved in a single operation
C) An equation with no variablesD) An equation that cannot be solved
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
Explain why it is important to perform the same operation on both sides of an equation.
Hint: Think about maintaining balance in the equation.

List the inverse operations for the following:



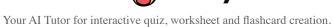
Your AI Tutor for interactive quiz, worksheet and flashcard creation.

Hint: Think about how to reverse each operation.	
1. Addition	
2. Subtraction	
3. Multiplication	
4. Division	
Part 2: comprehension and Application	
Part 2: comprehension and Application	
Part 2: comprehension and Application If x + 7 = 10, what operation would you use to solve for x?	
If $x + 7 = 10$, what operation would you use to solve for x?	
If x + 7 = 10, what operation would you use to solve for x? Hint: Think about how to isolate x. A) Addition B) Subtraction	
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	
If x + 7 = 10, what operation would you use to solve for x? Hint: Think about how to isolate x. A) Addition B) Subtraction	
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	
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	
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 Which of the following equations can be solved by division?	
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 Which of the following equations can be solved by division? Hint: Look for equations that involve multiplication. A) 3x = 12 B) x - 5 = 10	
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 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	
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 Which of the following equations can be solved by division? Hint: Look for equations that involve multiplication. A) 3x = 12 B) x - 5 = 10	

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.





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
OD) 9
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?
sides?
Sides? Hint: Consider the rules that govern equality.
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property C) Transitive Property
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property C) Transitive Property
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property C) Transitive Property D) Subtraction Property of Equality
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property C) Transitive Property D) Subtraction Property of Equality Analyze the following equations and identify which ones are incorrectly solved:
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property C) Transitive Property D) Subtraction Property of Equality Analyze the following equations and identify which ones are incorrectly solved: Hint: Look for mistakes in the solutions provided.
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property C) Transitive Property D) Subtraction Property of Equality 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
sides? Hint: Consider the rules that govern equality. A) ReflexIVE Property B) Symmetric Property C) Transitive Property D) Subtraction Property of Equality 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

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

Hint: Think about isolating x and the operations involved.



Your AI Tutor for interactive quiz, worksheet and flashcard creation.

	//
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	
Which of the following solutions are correct for the given equations?	
Hint: Evaluate each solution carefully.	
\Box A) x - 4 = 10 \rightarrow x = 14	
\Box B) 3x = 9 → x = 3	
\Box C) x + 7 = 15 \rightarrow x = 8	
□ D) $x/2 = 4 \rightarrow x = 8$	
Design a one step equation problem that involves a real-life context, such as budgeting or context be problem and provide the solution.	oking.
Hint: Think about everyday situations that involve solving for an unknown.	
	11

Create hundreds of practice and test experiences based on the latest learning science.