[One Step Equations Integers Answer Key](#)

Solving One Step Equations with Integers

Solve each equation. Check your Solution.

1. $a + 4 = 15$ 2. $b + 7 = -23$

3. $c - 5 = -18$ 4. $d - 14 = -5$

5. $17e = 102$ 6. $-7 = \frac{f}{15}$

7. $\frac{g}{6} = 22$ 8. $-12 = 4h$

9. $j - 33 = 6$ 10. $-17 = k - 45$

11. $m + 12 = -18$ 12. $n + 44 = 18$

13. $-34p = -136$ 14. $8q = -60$

One-Step Equations with Integers: Answer Key and Comprehensive Guide

Are you struggling with one-step equations involving integers? Feeling overwhelmed by negative numbers and variables? Don't worry, you're not alone! This comprehensive guide provides not only an answer key to common one-step equation problems with integers, but also a step-by-step explanation to help you master this fundamental algebraic concept. We'll cover various equation types, provide practical examples, and equip you with the skills to confidently solve these problems independently. Let's dive in!

Understanding One-Step Equations with Integers

Before we jump into the answer key, let's solidify our understanding of what one-step equations with integers actually are. A one-step equation is an algebraic equation that requires only one operation (addition, subtraction, multiplication, or division) to isolate the variable and find its value. Integers are simply whole numbers, including zero, and their negative counterparts (e.g., -3, 0, 5, -100).

Key Concepts to Remember:

The Goal: The goal is always to isolate the variable (usually represented by 'x' or another letter) on one side of the equation.

Inverse Operations: To isolate the variable, you'll use the inverse operation. Addition and subtraction are inverse operations, as are multiplication and division.

Maintaining Balance: Remember the golden rule of equations: whatever you do to one side, you must do to the other to maintain balance and equality.

One-Step Equations: Addition and Subtraction

These are the simplest types of one-step equations. Let's look at a few examples:

Example 1: $x + 5 = 8$

To isolate 'x', subtract 5 from both sides:

$x + 5 - 5 = 8 - 5$

$x = 3$

Example 2: $y - 7 = -2$

To isolate 'y', add 7 to both sides:

$y - 7 + 7 = -2 + 7$

$y = 5$

Example 3: $-4 + z = 12$

Add 4 to both sides:

$-4 + z + 4 = 12 + 4$

$z = 16$

Answer Key (Addition & Subtraction):

Problem: $x + 9 = -2$ Answer: $x = -11$
Problem: $a - 15 = 20$ Answer: $a = 35$

Problem: -6 + b = 10 Answer: b = 16

One-Step Equations: Multiplication and Division

These involve multiplying or dividing both sides of the equation to isolate the variable.

Example 1: $3x = 12$

To isolate 'x', divide both sides by 3:

$3x / 3 = 12 / 3$

$x = 4$

Example 2: $y / 4 = -5$

To isolate 'y', multiply both sides by 4:

$(y / 4) 4 = -5 \cdot 4$

$y = -20$

Example 3: $-2a = 10$

Divide both sides by -2:

$-2a / -2 = 10 / -2$

$a = -5$

Answer Key (Multiplication & Division):

Problem: 5m = -35 Answer: m = -7
Problem: n / (-2) = 8 Answer: n = -16
Problem: -7p = 49 Answer: p = -7

Troubleshooting Common Mistakes

Sign Errors: Be extremely careful with negative signs. Remember that subtracting a negative is the

same as adding a positive, and vice versa.
Order of Operations: Always follow the order of operations (PEMDAS/BODMAS) if there are multiple operations in the equation, though one-step equations generally don't require this.
Fractions and Decimals: The same principles apply even if the numbers are fractions or decimals.

Conclusion

Mastering one-step equations with integers is a crucial stepping stone in your algebra journey. By understanding inverse operations, practicing regularly, and carefully attending to detail, you can build confidence and accuracy in solving these equations. Remember to always check your work by plugging your answer back into the original equation!

FAQs

1. What if I have a fraction as the coefficient of the variable? You treat it just like any other number; multiply both sides by the reciprocal of the fraction.

2. Can one-step equations involve decimals? Absolutely! The process remains the same.

3. How can I practice more one-step equations? Utilize online resources, textbooks, and worksheets to find various practice problems.

4. What if I get a negative answer? Negative answers are perfectly valid and perfectly acceptable solutions to one-step equations.

5. Is there a shortcut to solving one-step equations? While there's no magic shortcut, with practice, you'll develop an intuitive understanding of the inverse operations and be able to solve them quickly.

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pronouns - "One of them" vs. "One of which" - English Language ...
Which one is grammatically correct or better? I have two assignments, One of them is done. I have two assignments, One of which is done. I watched a video tutorial that the teacher said the ...

<u>What's the difference between "ones", "the ones", "those", "one", ...</u>
Jan 10, 2019 · Some people say a dog=one, dogs=ones, the dog=the one=that, and the dogs=the ones=those. It's a rule of thumb, but what I found was that this is not always correct.

"One of the children who was" vs. *"one of the children who were"*
Jul 18, 2014 · The answer therefore is "she was one of the several children who was sold at the auction" (main sentence is in bold, the rest are only supporting the main sentence).

<u>"One-to-one" vs. "one-on-one" - English Language & Usage Stack ...</u>
Apr 19, 2012 · One-to-one is used when you talk about transfer or communications. You may use one-to-one when you can identify a source and a destination. For eg., a one-to-one email is one sent from a single person to another, i.e., no ccs or bccs. In maths, a one-to-one mapping maps one element of a set to a unique element in a target set. One-on-one is the correct adjective in your ...

<u>determiners - Should I use "a" or "one"? - English Language ...</u>

Oct 27, 2022 · I am really struggling to understand if I should use "a" or "one" in the below example. This is derived from another thread that became too confusing with the wrong examples. Th...

"one of A and B" or "one of A or B"? - English Language & Usage ...
Feb 21, 2018 · This version is longer but can be used for a larger set, eg 'one of A, B, or C will happen and only one'. Place a mental point on the red area, you'll see that it belongs to one circle and one circle only out of the two.

Difference between "I'm the one who..." and "I was the one who..."
Oct 6, 2023 · I drew the shorter straw, so I was the one who collected the money. The present tense "I am the one" refers to the current state of affairs. You are the person responsible for carrying out that action, and your responsibility extends into the present. I …

When to use "1" vs. "one" for technical writing?
Jul 21, 2017 · I currently am in the middle of a discussion about the proper use for when to use the numeral "1" versus "one". There are two sides to this argument: 1) In technical writing, numerals should alwa...

verbs - One or both of them has or have? - English Language ...
Jan 4, 2025 · But actually, one or both of them has already disengaged emotionally from the marriage. In this case, 'both of them', a plural form, is closer to the verb 'has', so I thought 'has' was grammatically wrong and the right verb should be 'have'. Does a singular verb in such cases sound more natural in speech and writing to native speakers?

"one off payment" meaning - English Language Learners Stack ...
A "one-off" payment would be something you make once for some particular charge or fee, and then in the future you might pay a regular fee every month or whatever.

pronouns - "One of them" vs. "One of whi...
Which one is grammatically correct or better? I have two assignments, One of them …

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"One of the children who was" vs. "one of ...
Jul 18, 2014 · The answer therefore is "she was one of the several children who …

"One-to-one" vs. "one-on-one" - English Lan...
Apr 19, 2012 · One-to-one is used when you talk about transfer or …

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