

70 is 350 of what number choose the correct solution

70 is 350% of What Number? Choosing the Correct Solution: A Comprehensive Guide

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Summary: This guide provides a step-by-step approach to solving the problem "70 is 350% of what number?". It explains the underlying mathematical principles, demonstrates multiple solution methods (including algebraic and conceptual approaches), highlights common errors, and offers practical tips for tackling similar percentage problems. The guide also explores real-world applications of percentage calculations and provides a comprehensive FAQ section to address reader queries.

Understanding the Problem: "70 is 350% of what number?"

The question, "70 is 350% of what number?" requires us to find an unknown value. This unknown is often represented by a variable, typically 'x'. We can translate the problem into a mathematical equation:

$$70 = 350\% x$$

Before we solve, it's crucial to understand the concept of percentages. A percentage represents a fraction out of 100. Therefore, 350% can be expressed as a decimal or a fraction:

$$\text{Decimal: } 350\% = 350/100 = 3.5$$

$$\text{Fraction: } 350\% = 350/100 = 7/2$$

Substituting the decimal equivalent into our equation, we get:

$$70 = 3.5 x$$

Methods for Solving the Equation

Several methods can effectively solve this equation. Let's explore two common approaches:

Method 1: Algebraic Solution

This method uses the principles of algebra to isolate the unknown variable (x).

1. Rewrite the equation: $70 = 3.5x$

1. Isolate x: Divide both sides of the equation by 3.5:

$$70 / 3.5 = x$$

1. Solve for x: $x = 20$

Therefore, 70 is 350% of 20.

Method 2: Conceptual Approach

This method focuses on understanding the relationship between the numbers.

Since 70 is 350% (or 3.5 times) of the unknown number, we can reason that the unknown number is smaller than 70. We can find it by dividing 70 by 3.5:

$$70 / 3.5 = 20$$

Again, we arrive at the solution: $x = 20$.

Common Pitfalls and Best Practices

Several common mistakes can occur when solving percentage problems.

Incorrect Percentage Conversion: Failing to accurately convert the percentage to a decimal or fraction is a frequent error. Always ensure you correctly convert percentages before substituting them into your equation.

Order of Operations: Remember the order of operations (PEMDAS/BODMAS). Multiplication and division should be performed before addition and subtraction.

Misinterpreting the Problem: Carefully read and understand the wording of the problem. Ensure you

correctly identify the known and unknown values.

Best Practices:

Always write the equation: Translating the word problem into a mathematical equation makes solving much easier and less prone to errors.

Show your work: Write down each step of your calculation to make it easier to identify and correct any errors.

Check your answer: Substitute your solution back into the original equation to verify if it's correct. In this case, $3.5 \times 20 = 70$, confirming our solution.

Practice: Consistent practice is crucial for mastering percentage calculations.

Real-World Applications

Understanding percentage calculations is essential in various real-world scenarios:

Finance: Calculating interest, discounts, tax rates, and profit margins.

Sales and Marketing: Analyzing sales growth, market share, and conversion rates.

Science: Expressing experimental results, statistical data, and changes in quantities.

Everyday Life: Calculating tips, discounts, and understanding proportions.

Conclusion

Solving the problem "70 is 350% of what number?" involves translating the word problem into a mathematical equation and employing algebraic or conceptual methods to find the unknown value. By understanding the fundamental concepts of percentages, using appropriate methods, and avoiding common pitfalls, you can confidently solve such problems and apply your knowledge to various real-world situations. Remember the importance of careful equation writing, showing your work, checking your answer, and practicing regularly to enhance your problem-solving skills.

FAQs

1. What if the percentage is less than 100%? The same principles apply. For example, "30 is 50% of what number?" would be solved as $30 = 0.5x$, leading to $x = 60$.
1. Can I use a calculator? Yes, calculators are helpful for simplifying calculations, especially with larger numbers or more complex problems.
1. How do I deal with percentages greater than 100%? Convert them to decimals (e.g., $150\% = 1.5$) and follow the same solving methods.

1. What if the problem is phrased differently? Always translate the problem into an equation to maintain clarity and accuracy, regardless of wording.
1. Are there other ways to solve this type of problem? Yes, proportions can also be used to solve percentage problems.
1. How can I improve my understanding of percentages? Practice solving a variety of percentage problems with increasing difficulty.
1. What resources can help me learn more about percentage calculations? Online tutorials, textbooks, and educational websites offer extensive resources.
1. Why is understanding percentages important? Percentages are fundamental to many aspects of life, enabling us to understand proportions, ratios, and changes in quantities.
1. What are some common applications of percentages in business? Businesses use percentages to track profitability, analyze market trends, and assess financial performance.

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Lesson 5.2 Mental Math: Estimate Quotients - Halifax County ...

Work it out to find the two estimates. 350 ÷ 70 or 80 are reasonable estimates. Think of multiples of the divisor to help with estimation and then add a zero to find the reasonable quotient. 287 ÷ 8, ...

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The given series is 12 (1st natural number and 1st prime number) then 23 (2nd natural number and 2nd prime number) then 35 (3rd natural number and 3rd prime number) and so on. Hence next ...

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Sean has \$3.70 with quarters, nickels and dimes. The number of dimes is one less than the number of nickels, and the number of quarters is 3 less than the number of dimes.

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A 2.70-kg block starts from rest at the top of a 30:0 incline and slides a distance of 1.90 m down the incline in 2.00 s. • a) Find the magnitude of the acceleration of the block.

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Rationale: Option B is correct. The student may use proportions or linear equations to solve this problem. To ...

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