

Claire Has \$18. She Wants To Buy A Book And Magazine. The Book Costs \$13.28. How Much Can Claire Spend

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When it comes to shopping on a budget, understanding how much money you have and how to allocate it wisely is essential. In this scenario, Claire has \$18 and wants to purchase both a book and a magazine. The book costs \$13.28, and Claire is curious about how much money she can spend on the magazine without exceeding her total budget. This article will guide you through the process of calculating her remaining funds, explore different ways to approach such problems, and provide helpful tips for managing money effectively.

Understanding the Problem

Before jumping into calculations, it's important to clearly understand what the problem entails:

- Total amount Claire has: \$18
- Cost of the book: \$13.28
- Cost of the magazine: Unknown
- Goal: Determine how much money Claire can spend on the magazine without exceeding her total budget.

This problem involves basic subtraction, but it can also serve as a foundation for understanding budgeting, decimals, and practical math skills.

Step-by-Step Calculation

Let's walk through the calculation process:

1. Determine the total amount available for both items

Claire's total money is \$18. She wants to buy two items: a book and a magazine.

2. Subtract the cost of the book from her total funds

To find out how much money remains after buying the book:

- Cost of the book: \$13.28
- Total funds: \$18.00

Calculation:

$$\$18.00 - \$13.28 = \$4.72$$

3. Find out how much Claire can spend on the magazine

Since she has \$4.72 remaining, she can spend up to this amount on the magazine.

Answer: Claire can spend \$4.72 on the magazine.

Understanding Decimal Subtraction

When working with money, especially involving cents, it's important to understand decimal subtraction. Here's some helpful advice:

- Always align the decimal points.
- Subtract cents first, then dollars.
- If the cents in the top number are smaller than the bottom, borrow from the dollar part.

Example:

```
```plaintext
18.00
- 13.28

4.72
```
```

This confirms the calculation is straightforward.

Additional Scenarios and Tips

While the basic calculation is simple, real-world shopping involves various considerations. Here are some related scenarios and tips:

Scenario 1: What if the magazine costs more than the remaining funds?

Suppose the magazine costs \$5.00. Can Claire buy it?

- Remaining funds after the book: \$4.72
- Magazine cost: \$5.00

Answer: No, Claire cannot afford the magazine if it costs more than \$4.72.

Tip: Always compare the item's price with your remaining budget before purchasing.

Scenario 2: What if Claire wants to buy only one item? Which should she buy?

- If she buys only the book, she spends \$13.28.
- Remaining money: \$4.72.

Alternatively, if she wants the magazine and can only afford \$4.72, she might look for a cheaper magazine or consider saving more money.

Tips for Managing Money and Making Purchases

- **Set a budget:** Know exactly how much money you have before shopping.
- **Prioritize needs:** Decide which items are most important.

- **Compare prices:** Look for discounts or cheaper alternatives.
- **Use mental math or calculators:** To avoid mistakes with decimals.
- **Track expenses:** Keep a record of what you spend to stay within your budget.

Additional Mathematical Concepts Related to Budgeting

Understanding how to work with currency and decimals is crucial for effective budgeting. Here are some concepts to keep in mind:

1. Rounding

Sometimes, prices are rounded to the nearest cent, but knowing how to work with exact figures is helpful for precise calculations.

2. Estimation

Estimate totals to quickly determine if a purchase is affordable, then use precise calculations for confirmation.

3. Percentages and Discounts

In shopping, discounts are often given as percentages. Knowing how to calculate discounts can help you save money.

Practical Examples

To reinforce understanding, here are some practical examples:

- **Example 1:** Claire has \$20. The book costs \$13.28, and the magazine costs \$4.72. How much money does she spend in total?
- **Solution:** Add the costs: $\$13.28 + \$4.72 = \$18.00$. She spends exactly \$18, leaving her with no remaining funds.
- **Example 2:** Claire wants to buy a magazine that costs \$5.00. How much money will she have left after buying the book and magazine?
- **Solution:** Total spent: $\$13.28 + \$5.00 = \$18.28$. Since she only has \$18, she cannot afford both items.

Conclusion

In summary, Claire has \$18 and wants to buy a book costing \$13.28. The remaining amount she has, which she can spend on a magazine, is \$4.72. This calculation involves straightforward subtraction of decimals, a fundamental skill in everyday math. Understanding how to work with money, decimals, and budgeting helps make smarter purchasing decisions and manage finances more effectively.

Whether you're a student learning basic math skills or someone managing personal expenses, mastering these calculations is valuable. Always remember to double-check your work, compare prices before buying, and plan your spending wisely to stay within your budget.

Key Takeaways:

- Always subtract the cost of the item from your total funds to find remaining money.
- Work carefully with decimal numbers, aligning decimal points when subtracting.
- Use budgeting techniques to prioritize spending and avoid overspending.
- Practice with real-world examples to improve your mathematical confidence.

By mastering these skills, you'll be better prepared to handle everyday financial decisions, just like Claire deciding how much she can spend on her magazine after purchasing her book.

Frequently Asked Questions

How much money does Claire have initially?

Claire has \$18 initially.

What is the price of the book Claire wants to buy?

The book costs \$13.28.

How much money does Claire have after buying the book?

She can spend up to \$18 in total, but after buying the book for \$13.28, she will have \$4.72 left.

Can Claire buy both the book and a magazine if the magazine costs \$4?

Yes, because the total cost would be $\$13.28 + \$4 = \$17.28$, which is less than her \$18 budget.

How much money can Claire spend on the magazine if she only buys the magazine?

She can spend the full \$18 since she is only buying the magazine.

What is the remaining amount of money after buying

the book?

After purchasing the book for \$13.28, Claire will have \$4.72 left.

If Claire wants to buy a magazine costing \$5, can she afford it after buying the book?

No, because the total would be $\$13.28 + \$5 = \$18.28$, which exceeds her \$18 budget.

What is the maximum amount Claire can spend on the magazine if she also buys the book?

She can spend up to \$4.72 on the magazine, since she only has that much remaining after purchasing the book.

How much money does Claire save after buying the book with her initial amount?

She spends \$13.28 on the book, so she saves $\$18 - \$13.28 = \$4.72$.

Additional Resources

Claire Has \$18. She Wants To Buy A Book And

Magazine. The Book Costs \$13.28. How Much Can Claire Spend?

In everyday shopping scenarios, determining how much money remains after making a purchase is a fundamental math skill. Whether you're a student managing your budget, a parent helping your child understand money, or simply someone trying to make the best purchasing decision, understanding how to calculate remaining funds is essential. Today, we explore the case of Claire, who has \$18 and plans to buy both a book and a magazine, with the book costing \$13.28. The question is: How much money can Claire spend on the magazine without exceeding her total budget? This article delves into the step-by-step process of solving this problem, emphasizing clear calculations, understanding decimal subtraction, and reinforcing key concepts in financial literacy.

The Scenario: Breaking Down Claire's Budget

Claire begins with a total of \$18. She intends to purchase two items:

- A book costing \$13.28
- A magazine with an unknown cost

The goal is to determine how much money Claire can allocate to the magazine without surpassing her total of \$18.

This problem introduces core skills in:

- Subtracting decimal numbers**
- Budget management**
- Understanding monetary values**

Let's examine each component in detail.

Step 1: Understanding the Initial Amount and the Cost of the Book

Claire's initial amount: \$18.00

Cost of the book: \$13.28

It's essential to recognize that monetary amounts are expressed in dollars and cents, which are decimal values. The dollar sign (\$) indicates the currency, and the decimal separates dollars from cents.

For clarity:

- \$18.00 (or simply \$18)**
- \$13.28**

Step 2: Performing the Subtraction: How Much Money Remains After Buying the Book

The first calculation involves subtracting the cost

of the book from Claire's total funds:

Remaining money after purchasing the book = Total money - Cost of the book

Mathematically:

$$\$18.00 - \$13.28 = ?$$

Calculating this subtraction involves working with decimal numbers, specifically ensuring proper alignment of decimal points and handling borrowing if necessary.

Step 3: Calculating the Remaining Funds

Aligning the Numbers

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$$\begin{array}{r} 18.00 \\ - 13.28 \\ \hline \end{array}$$

Step-by-step subtraction:

1. Subtract the cents (hundreds place):

- 0 (from 18.00) minus 8 (from 13.28): Since $0 < 8$, borrow 1 from the dollar place.

2. Borrowing process:

- Borrow 1 dollar (which equals 100 cents) from the '1' in the 18.00, reducing it to 17.00.
- Add 100 cents to the cents place: now, the cents are $100 + 0 = 100$.

3. Perform the cents subtraction:

- $100 - 28 = 72$ cents.

4. Subtract the dollar parts:

- Now, with the dollar part after borrowing: $17 - 13 = 4$ dollars.

Putting it all together:

- Dollars: $17 - 13 = 4$
- Cents: $100 - 28 = 72$

Result:

Remaining money = \$4.72

This means Claire has \$4.72 left after purchasing the book.

Step 4: Determining How Much Claire Can Spend on the Magazine

Now that we know Claire has \$4.72 remaining, the next step is to decide how much she can spend on the magazine.

Key point: The magazine's cost can be any amount up to \$4.72, provided Claire does not overspend.

- If the magazine costs less than or equal to \$4.72, Claire can buy it comfortably.**
- If she wants to buy multiple magazines or other items, she needs to ensure her total spending doesn't exceed her remaining funds.**

Assumption: If the magazine has a known price, say, for example, \$2.50, Claire can purchase it confidently since $\$2.50 \leq \4.72 .

If the price of the magazine is unknown, the maximum she can spend is precisely \$4.72.

Step 5: Practical Applications and Additional Considerations

Understanding how to calculate remaining funds after a purchase is vital in real-world financial decisions. Here are some practical tips:

- Always work with decimal numbers carefully, aligning decimal points.**
- Use subtraction with borrowing when dealing with cents.**
- Round to the nearest cent if needed, but be precise to avoid overspending.**
- When planning multiple purchases, subtract each item's cost cumulatively from your total budget.**

Additional considerations include:

- **Tax and tip:** In some cases, you may need to add sales tax to the item's price, reducing the amount available for other items.
- **Budgeting:** Always leave some margin for unexpected expenses or savings.
- **Price comparisons:** Knowing the maximum you can spend helps you compare prices effectively.

Summary: How Much Can Claire Spend?

To summarize the steps:

1. **Start with total funds: \$18.00**
2. **Subtract the book's cost: \$13.28**
3. **Calculate remaining funds: \$4.72**
4. **Determine maximum spend on the magazine: Up to \$4.72**

Therefore, Claire can spend up to \$4.72 on the magazine without exceeding her \$18 budget.

Final Thoughts: Enhancing Financial Literacy

This scenario exemplifies a fundamental principle in personal finance: understanding how much money is left after a purchase. Mastering decimal subtraction and budget management empowers individuals to make informed decisions, avoid overspending, and plan for

future expenses.

For students and learners, practicing similar problems enhances confidence in handling real-world financial situations. Whether it's shopping, budgeting, or saving, the ability to perform accurate calculations with money is a valuable skill that supports financial independence and responsible decision-making.

In conclusion, Claire, with her \$18, can enjoy her books and magazines comfortably by understanding her remaining funds after each purchase. With a clear grasp of decimal subtraction and budgeting basics, she can make smart choices that align with her financial goals.

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