

Shirts Are 15% Off. The Original Price Of One Shirt Is \$20. What Is The Total Cost, In Dollars, Of A

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Are you considering purchasing shirts during a sale event? If so, understanding how discounts impact the total cost is essential for making informed shopping decisions. Currently, shirts are available at a 15% discount, with each shirt originally priced at \$20. This article will guide you through calculating the final price after discount, exploring how to determine the total cost when buying multiple shirts, and providing tips to maximize your savings. Whether you're shopping for yourself or planning a bulk purchase, mastering these calculations can help you budget effectively and take full advantage of promotional offers.

Understanding the Discount: What Does 15% Off Mean?

Before diving into calculations, it's important to understand what a 15% discount entails. A discount percentage indicates how much money is subtracted from the original price of an item, making it cheaper for consumers.

Definition of a 15% Discount

- A 15% discount reduces the original price by 15% of its value.
- It is expressed as a percentage of the original price.

Why Are Discounts Important?

- Discounts allow consumers to save money.
- They encourage bulk purchasing.
- They help retailers clear inventory quickly.

Calculating the Discounted Price of a Single Shirt

The primary step in understanding the total cost involves calculating the new price after applying the 15% discount.

Step 1: Determine the Discount Amount

- Original Price of One Shirt: \$20
- Discount Percentage: 15%

Calculation:

- Discount Amount = Original Price $\times$ Discount Percentage
- Discount Amount = $\$20 \times 0.15 = \3

Step 2: Subtract Discount from Original Price

- Discounted Price = Original Price – Discount Amount
- Discounted Price = $\$20 - \$3 = \$17$

Result:

One shirt now costs \$17 after the 15% discount.

Calculating the Total Cost for Multiple Shirts

Once you understand how to find the discounted price of a single shirt, you can easily calculate the total cost for multiple shirts.

Scenario 1: Buying 1 Shirt

- Total Cost = \$17

Scenario 2: Buying Multiple Shirts

Suppose you want to buy n shirts, all at the discounted price.

Total Cost Formula:

- Total Cost = Number of Shirts (n) $\times$ Discounted Price per Shirt

Example: Buying 5 Shirts

- Total Cost = $5 \times \$17 = \85

Scenario 3: Buying in Bulk

Many retailers offer additional discounts for bulk purchases, but if no additional discounts apply, the calculation remains straightforward.

Factors Influencing Total Cost and Savings

While the basic calculation involves the original price and discount percentage, a few other factors can influence the total cost:

Quantity of Shirts

- More shirts purchased means higher total cost, but also more savings in total.

Additional Taxes or Fees

- Depending on your location, sales tax or other fees may apply.
- Calculate additional costs as a percentage of the subtotal.

Availability of Extra Promotions

- Some stores offer additional discounts or bundle deals.
- Combining promotions can lead to greater savings.

Step-by-Step Guide to Calculate Total Cost of Shirts at 15% Off

To help streamline your shopping calculations, follow this step-by-step process:

1. Identify the original price of one shirt (here, \$20).

2. Determine the discount percentage (here, 15%).
3. Calculate the discount amount:
 - $\text{Discount} = \text{Original Price} \times \text{Discount Percentage}$
 - Example: $\$20 \times 0.15 = \3
4. Find the discounted price per shirt:
 - $\text{Discounted Price} = \text{Original Price} - \text{Discount Amount}$
 - Example: $\$20 - \$3 = \$17$
5. Decide how many shirts you want to buy (say, n shirts).
6. Calculate the total cost:
 - $\text{Total Cost} = \text{Number of Shirts} \times \text{Discounted Price}$
 - Example: $n \times \$17$

Practical Examples of Total Cost Calculations

Let's explore some real-world scenarios to illustrate how to compute the total cost effectively.

Example 1: Buying 3 Shirts

- Discounted price per shirt: \$17
- Total cost: $3 \times \$17 = \51

Example 2: Buying 10 Shirts

- Total cost: $10 \times \$17 = \170

Example 3: Buying 20 Shirts

- Total cost: $20 \times \$17 = \340

Additional Tips for Maximizing Savings During Sales

To make the most of discounts like 15% off, consider the following tips:

- **Plan Your Purchase:** Know exactly how many shirts you need to avoid unnecessary spending.
- **Combine Promotions:** Look for store-wide sales, coupons, or bundle deals to increase savings.
- **Check for Additional Discounts:** Some retailers offer loyalty discounts or special offers for bulk purchases.
- **Calculate Before Buying:** Always compute the total cost after discounts to stay within your budget.
- **Be Aware of Taxes:** Remember to factor in sales tax or any other applicable fees.

Conclusion: Understanding Total Cost Calculation for Shirts at

15% Off

In summary, understanding how to calculate the total cost of shirts after a 15% discount is a valuable skill for savvy shoppers. By knowing that each shirt originally costs \$20, and that the discount reduces the price to \$17, you can easily determine the total expense for any quantity of shirts. Whether purchasing a few or many, applying these calculations ensures transparency and helps you stick to your budget. Remember to consider additional factors like taxes and other promotions to maximize your savings. With this knowledge, you can shop confidently during sales and make the most of your money.

Total Cost Formula Recap:

- Total Cost = Number of Shirts $\times$ (Original Price – (Original Price $\times$ Discount Percentage))

Happy shopping, and enjoy your savings!

Frequently Asked Questions

What is the discounted price of one shirt originally costing \$20 with a 15% discount?

The discounted price is \$17, calculated as $\$20 - (15\% \text{ of } \$20) = \$20 - \$3 = \$17$.

How much money do I save on one shirt during the sale?

You save \$3 on one shirt, since 15% of \$20 is \$3.

If I buy 3 shirts during the sale, what is the total cost?

The total cost for 3 shirts is $3 \times \$17 = \51 .

What is the total cost of 5 shirts after the 15% discount?

The total cost is $5 \times \$17 = \85 .

If I want to spend exactly \$68, how many shirts can I buy during the sale?

You can buy 4 shirts, since $4 \times \$17 = \68 .

What is the original total cost of 4 shirts before the discount?

The original total cost is $4 \times \$20 = \80 .

How much would I pay in total for 10 shirts during the sale?

You would pay $10 \times \$17 = \170 .

If I return one shirt bought at the discounted price, what is my net expenditure for 4 shirts?

Your net expenditure would be $4 \times \$17 = \68 .

Is the discount percentage the same for multiple shirts purchased together?

Yes, the 15% discount applies uniformly to each shirt regardless of the quantity purchased.

Additional Resources

Shirts Are 15% Off: An In-Depth Analysis of Discount Pricing and Total Cost Calculation

When shopping for clothing, especially shirts, discounts play a significant role in influencing purchasing

decisions. A common promotional tactic is to offer a percentage off the original price, enticing customers with perceived savings. In this detailed review, we will explore the specifics of a promotion where shirts are available at a 15% discount, focusing on a shirt originally priced at \$20. We will analyze how to calculate the total cost after the discount, examine various factors that influence the final price, and provide insights into maximizing value during such sales.

Understanding the Original Price and Discount Percentage

The Original Price of a Shirt

The starting point in our analysis is the original price of the shirt, which is \$20. This figure represents the pre-discount retail price set by the seller, often based on manufacturing costs, brand positioning, and market competition.

The Discount Percentage

The promotion offers a 15% discount on the original price. This percentage indicates the portion of the original price that will be deducted, making the shirt more affordable for consumers.

Calculating the Discount Amount

Step-by-Step Calculation

To determine the discounted price, we first calculate the amount to be subtracted from the original price, which is the discount amount.

Formula:

$$\text{Discount Amount} = \text{Original Price} \times \left(\frac{\text{Discount Percentage}}{100} \right)$$

Applying the values:

$$\text{Discount Amount} = \$20 \times \left(\frac{15}{100} \right) = \$20 \times 0.15 = \$3$$

This means that on a \$20 shirt, a 15% discount translates to a savings of \$3.

Determining the Final Price After Discount

Subtracting Discount from Original Price

Once we know the discount amount, calculating the final price is straightforward:

$$\text{Final Price} = \text{Original Price} - \text{Discount Amount}$$

Calculation:

$$\begin{aligned} & \backslash \\ & \$20 - \$3 = \$17 \\ & \backslash \end{aligned}$$

Therefore, after applying the 15% discount, the shirt's final cost is \$17.

Implications for Buyers and Shopping Strategies

Perceived Savings

Understanding the actual dollar savings helps consumers make informed purchasing decisions. A \$3 discount on a \$20 shirt, while not enormous, still offers a tangible benefit.

Value Assessment

Consumers should consider whether the discounted price aligns with their perceived value of the shirt, its quality, and their budget constraints.

Bulk Buying and Multiple Purchases

If a promotion applies to multiple shirts, total savings can add up significantly:

- Buying 2 shirts:

Total original price = $\$20 \times 2 = \40

Discount per shirt = \$3

Total discount = $\$3 \times 2 = \6

Total cost after discount = $\$40 - \$6 = \$34$

- Buying n shirts:

Total original price = $\$20 \times n$

Total discount = $\$3 \times n$

Final cost = $(\$20 \times n) - (\$3 \times n) = (\$20 - \$3) \times n = \$17 \times n$

This illustrates the straightforward scalability of discounts when purchasing multiple units.

Additional Factors Influencing Total Cost

While the straightforward calculation provides clarity, several other aspects may influence the total cost in real-world scenarios:

Sales Tax

Most regions impose sales tax on clothing purchases, which varies by location. To estimate the total cost including tax:

- Determine the local sales tax rate.

- Calculate tax:

$$\begin{aligned} & \text{Tax} = \text{Final Price} \times \left(\frac{\text{Tax Rate}}{100} \right) \end{aligned}$$

- Total cost:

$$\begin{aligned} & \text{Final Price} + \text{Tax} \end{aligned}$$

\]

Example:

If the sales tax rate is 8%, then:

\[

$$\text{Tax} = \$17 \times 0.08 = \$1.36$$

\]

$$\text{Total cost} = \$17 + \$1.36 = \$18.36.$$

Additional Fees or Charges

Some retailers may charge processing fees, shipping costs, or handling charges, which must be added to the discounted price to determine final expenditure.

Return Policies and Price Adjustments

Understanding return policies during sales is crucial. If a shirt is returned after purchase, the refund may be based on the discounted price, which can impact overall savings.

Comparative Analysis with Other Discounts

How 15% Compares to Other Discount Percentages

To contextualize the 15% discount's attractiveness, compare it with other common discounts:

- 10% off on a \$20 shirt:

Discount = \$2

Final Price = \$18

- 20% off on a \$20 shirt:

Discount = \$4

Final Price = \$16

- 25% off on a \$20 shirt:

Discount = \$5

Final Price = \$15

This comparison helps consumers gauge whether the 15% discount offers a compelling deal relative to other promotions.

Impact of Larger Discounts

A higher discount percentage results in greater savings, but such deals may be less common or come with restrictions. The 15% off promotion strikes a balance, offering noticeable savings while remaining a sustainable promotional tactic for retailers.

Psychological and Marketing Aspects of Discount Promotions

Perceived Value and Consumer Behavior

Discounts influence purchasing psychology. A 15% discount feels substantial enough to motivate buyers without devaluing the product excessively.

Urgency and Limited-Time Offers

Retailers often combine percentage discounts with limited-time offers to create urgency, encouraging quicker purchasing decisions.

Bundling and Upselling Strategies

Promotions like these can be paired with bundling options (buying multiple shirts at the discounted rate) or upselling higher-quality items to maximize sales.

Conclusion: What Does the Total Cost of a Shirt Come To?

Putting it all together, for a shirt originally priced at \$20, a 15% discount reduces the price by \$3, leading to a final cost of \$17 before taxes and additional fees. When considering tax, the total out-of-pocket expense might increase slightly, depending on jurisdiction.

Summary:

- Original Price: \$20
- Discount Percentage: 15%
- Discount Amount: \$3
- Price After Discount: \$17
- Estimated Tax (assuming 8%): \$1.36
- Total Cost (including tax): \$18.36

This comprehensive approach equips consumers with the knowledge to evaluate such promotions effectively, ensuring they make confident, value-driven purchasing decisions. Whether buying a single shirt or multiple items, understanding these calculations helps maximize savings and enhances

shopping satisfaction.

Final Thoughts

Discounts like 15% off are common in retail and can offer significant savings when understood properly. Always consider additional costs like taxes and fees, and compare discounts to see if they meet your budget and value expectations. Armed with this detailed understanding, shoppers can approach sales with confidence, ensuring they get the best possible deal on their favorite shirts and other apparel.

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