

FIND THE DISCOUNTED PRICE, TO THE NEAREST CENT, FOR A PORTABLE CD PLAYER THAT SELLS FOR \$59.95 AND IS

FIND THE DISCOUNTED PRICE, TO THE NEAREST CENT, FOR A PORTABLE CD PLAYER THAT SELLS FOR \$59.95 AND IS A COMMON INQUIRY FOR SHOPPERS LOOKING TO MAXIMIZE THEIR SAVINGS ON ELECTRONICS. WHETHER YOU'RE CONSIDERING PURCHASING A PORTABLE CD PLAYER FOR PERSONAL USE, AS A GIFT, OR AS AN UPGRADE TO YOUR CURRENT AUDIO EQUIPMENT, UNDERSTANDING HOW TO ACCURATELY DETERMINE THE DISCOUNTED PRICE IS ESSENTIAL. KNOWING THE EXACT PRICE YOU WILL PAY AFTER DISCOUNTS CAN HELP YOU COMPARE OPTIONS EFFECTIVELY, PLAN YOUR BUDGET, AND MAKE MORE INFORMED PURCHASING DECISIONS.

IN THIS ARTICLE, WE WILL EXPLORE HOW TO FIND THE DISCOUNTED PRICE OF A PORTABLE CD PLAYER ORIGINALLY PRICED AT \$59.95, FOCUSING ON THE PRECISE CALCULATIONS NEEDED TO ARRIVE AT THE NEAREST CENT. WE WILL ALSO DISCUSS VARIOUS FACTORS THAT INFLUENCE DISCOUNTS, DIFFERENT TYPES OF DISCOUNTS AVAILABLE, AND PRACTICAL EXAMPLES TO ILLUSTRATE THE PROCESS.

UNDERSTANDING THE BASICS OF DISCOUNTS

WHAT IS A DISCOUNT?

A DISCOUNT IS A REDUCTION IN THE ORIGINAL PRICE OF A PRODUCT OR SERVICE, OFFERED BY RETAILERS TO ENCOURAGE SALES, CLEAR OUT INVENTORY, OR ATTRACT NEW CUSTOMERS. DISCOUNTS CAN BE EXPRESSED IN DIFFERENT WAYS:

- PERCENTAGE OFF (E.G., 20% OFF)
- FIXED AMOUNT OFF (E.G., \$10 OFF)
- BUY ONE GET ONE FREE (BOGO)

FOR THE PURPOSE OF THIS ARTICLE, WE FOCUS ON PERCENTAGE DISCOUNTS, AS THEY ARE THE MOST COMMON AND STRAIGHTFORWARD TO CALCULATE.

WHY IS ACCURATE DISCOUNT CALCULATION IMPORTANT?

CALCULATING THE DISCOUNTED PRICE ACCURATELY ENSURES THAT CONSUMERS ARE AWARE OF THE TRUE COST OF THEIR PURCHASE. IT PREVENTS OVERPAYMENT AND ALLOWS COMPARISON SHOPPING TO BE FAIR AND PRECISE. WHEN DISCOUNTS ARE EXPRESSED IN PERCENTAGES, THE KEY IS TO CONVERT THAT PERCENTAGE INTO A DOLLAR AMOUNT AND SUBTRACT IT FROM THE ORIGINAL PRICE.

CALCULATING THE DISCOUNTED PRICE

STEP 1: IDENTIFY THE ORIGINAL PRICE

THE ORIGINAL PRICE OF THE PORTABLE CD PLAYER IS GIVEN AS \$59.95.

STEP 2: DETERMINE THE DISCOUNT PERCENTAGE

THE DISCOUNT PERCENTAGE VARIES DEPENDING ON THE PROMOTION. FOR THIS EXAMPLE, LET'S CONSIDER COMMON SCENARIOS:

- 20% DISCOUNT
- 15% DISCOUNT
- 25% DISCOUNT

SUPPOSE THE RETAILER OFFERS A 20% DISCOUNT ON THE CD PLAYER.

STEP 3: CALCULATE THE DISCOUNT AMOUNT

TO FIND THE AMOUNT OF THE DISCOUNT:

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

APPLYING THE FORMULA FOR 20%:

$$\text{Discount Amount} = 59.95 \times \left(\frac{20}{100} \right) = 59.95 \times 0.20$$

STEP 4: PERFORM THE CALCULATION AND ROUND TO THE NEAREST CENT

CALCULATING:

$$59.95 \times 0.20 = 11.99$$

SINCE THE RESULT IS ALREADY TO THE NEAREST CENT, THE DISCOUNT AMOUNT IS \$11.99.

STEP 5: SUBTRACT THE DISCOUNT FROM THE ORIGINAL PRICE

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

$$= 59.95 - 11.99 = 47.96$$

THEREFORE, THE DISCOUNTED PRICE, TO THE NEAREST CENT, IS \$47.96.

EXAMPLES OF DISCOUNTED PRICES FOR DIFFERENT PERCENTAGES

CASE 1: 15% DISCOUNT

- DISCOUNT AMOUNT: $(59.95 \times 0.15 = 8.99)$
- DISCOUNTED PRICE: $(59.95 - 8.99 = 50.96)$

CASE 2: 25% DISCOUNT

- DISCOUNT AMOUNT: $(59.95 \times 0.25 = 14.99)$
- DISCOUNTED PRICE: $(59.95 - 14.99 = 44.96)$

CASE 3: 10% DISCOUNT

- DISCOUNT AMOUNT: $(59.95 \times 0.10 = 5.99)$
- DISCOUNTED PRICE: $(59.95 - 5.99 = 53.96)$

FACTORS AFFECTING DISCOUNTED PRICES

SEASONAL SALES AND PROMOTIONS

RETAILERS OFTEN OFFER SIGNIFICANT DISCOUNTS DURING SALES EVENTS SUCH AS BLACK FRIDAY, CYBER MONDAY, OR HOLIDAY SEASONS. THESE DISCOUNTS CAN RANGE FROM 10% TO 50% OR MORE, DRASTICALLY REDUCING THE PURCHASE PRICE.

COUPON CODES AND SPECIAL OFFERS

USING COUPONS OR PROMO CODES CAN PROVIDE ADDITIONAL SAVINGS, WHICH NEED TO BE FACTORED INTO THE CALCULATION TO FIND THE FINAL PRICE.

CLEARANCE AND OUTLET DISCOUNTS

PRODUCTS ON CLEARANCE OR AT OUTLET STORES OFTEN HAVE STEEP DISCOUNTS, SOMETIMES EXCEEDING 50%. CALCULATING THE EXACT PRICE INVOLVES THE SAME PERCENTAGE-BASED FORMULA.

PRACTICAL TIPS FOR FINDING THE BEST DEAL

COMPARE MULTIPLE RETAILERS

CHECK DIFFERENT STORES, BOTH ONLINE AND PHYSICAL, TO FIND THE MOST FAVORABLE DISCOUNT ON THE PORTABLE CD PLAYER.

USE PRICE COMPARISON TOOLS

LEVERAGE ONLINE TOOLS AND APPS THAT AGGREGATE PRICES FROM VARIOUS SOURCES, HELPING YOU IDENTIFY WHERE THE BEST DEAL IS.

CALCULATE BEFORE PURCHASING

ALWAYS PERFORM THE CALCULATION YOURSELF TO VERIFY THE EXACT DISCOUNTED PRICE, ESPECIALLY WHEN PROMOTIONS ARE COMPLICATED OR INVOLVE MULTIPLE DISCOUNTS.

CONCLUSION

KNOWING HOW TO ACCURATELY FIND THE DISCOUNTED PRICE OF A PRODUCT, SUCH AS A PORTABLE CD PLAYER ORIGINALLY PRICED AT \$59.95, IS A VALUABLE SKILL FOR ANY SAVVY SHOPPER. BY UNDERSTANDING THE BASIC PRINCIPLES OF DISCOUNT CALCULATIONS—MULTIPLYING THE ORIGINAL PRICE BY THE DISCOUNT PERCENTAGE, THEN SUBTRACTING THAT AMOUNT—YOU CAN DETERMINE THE FINAL COST TO THE NEAREST CENT WITH CONFIDENCE. REMEMBER TO CONSIDER DIFFERENT DISCOUNT RATES, PROMOTIONS, AND ADDITIONAL OFFERS TO MAXIMIZE YOUR SAVINGS.

WHETHER YOU'RE SHOPPING DURING A SALE, USING A COUPON, OR COMPARING PRICES ACROSS VARIOUS RETAILERS, PRECISE CALCULATION ENSURES YOU GET THE BEST DEAL POSSIBLE. KEEP THESE STRATEGIES IN MIND, AND YOU'LL ALWAYS KNOW EXACTLY HOW MUCH YOU'LL PAY FOR YOUR FAVORITE ELECTRONICS, MAKING YOUR SHOPPING EXPERIENCE BOTH ECONOMICAL AND SATISFYING.

FREQUENTLY ASKED QUESTIONS

HOW DO I CALCULATE THE DISCOUNTED PRICE OF A PORTABLE CD PLAYER ORIGINALLY PRICED AT \$59.95 WITH A GIVEN DISCOUNT PERCENTAGE?

TO FIND THE DISCOUNTED PRICE, MULTIPLY THE ORIGINAL PRICE BY $(1 - \text{DISCOUNT RATE})$. FOR EXAMPLE, IF THE DISCOUNT IS 20%, THEN $\text{DISCOUNTED PRICE} = \$59.95 \times (1 - 0.20) = \$59.95 \times 0.80 = \$47.96$.

IF A PORTABLE CD PLAYER COSTS \$59.95 AND IS ON SALE WITH A 15% DISCOUNT, WHAT IS THE FINAL PRICE ROUNDED TO THE NEAREST CENT?

THE DISCOUNT AMOUNT IS $\$59.95 \times 0.15 = \8.99 . SO, THE DISCOUNTED PRICE IS $\$59.95 - \$8.99 = \$50.96$.

WHAT IS THE FORMULA TO FIND THE DISCOUNTED PRICE OF A PRODUCT WHEN THE ORIGINAL PRICE AND DISCOUNT PERCENTAGE ARE GIVEN?

THE FORMULA IS: $\text{Discounted Price} = \text{Original Price} \times (1 - \text{Discount Percentage})$. ENSURE THE DISCOUNT PERCENTAGE IS EXPRESSED AS A DECIMAL (E.G., 20% AS 0.20).

A PORTABLE CD PLAYER PRICED AT \$59.95 IS DISCOUNTED BY 25%. WHAT IS THE DISCOUNTED PRICE TO THE NEAREST CENT?

CALCULATE THE DISCOUNT: $\$59.95 \times 0.25 = \14.99 . THEN SUBTRACT: $\$59.95 - \$14.99 = \$44.96$.

WHY IS IT IMPORTANT TO ROUND THE DISCOUNTED PRICE TO THE NEAREST CENT WHEN SHOPPING?

ROUNDING TO THE NEAREST CENT ENSURES THE PRICE ALIGNS WITH CURRENCY STANDARDS, MAKING IT CLEAR AND ACCURATE FOR TRANSACTIONS, AVOIDING DISCREPANCIES IN PAYMENT OR CHANGE.

ADDITIONAL RESOURCES

FIND THE DISCOUNTED PRICE, TO THE NEAREST CENT, FOR A PORTABLE CD PLAYER THAT SELLS FOR \$59.95 AND IS

INTRODUCTION

IN TODAY'S FAST-PACED WORLD, PORTABLE CD PLAYERS CONTINUE TO BE A POPULAR CHOICE FOR MUSIC ENTHUSIASTS SEEKING PORTABLE ENTERTAINMENT. DESPITE THE SURGE OF DIGITAL STREAMING AND MODERN DEVICES, MANY CONSUMERS STILL VALUE THE SIMPLICITY AND RELIABILITY OF TRADITIONAL CD PLAYERS. WHEN SHOPPING FOR SUCH DEVICES, UNDERSTANDING THE PRICE REDUCTIONS OR DISCOUNTS OFFERED BY RETAILERS IS ESSENTIAL TO MAKING AN INFORMED PURCHASE. THIS ARTICLE PROVIDES A COMPREHENSIVE ANALYSIS TO HELP YOU DETERMINE THE DISCOUNTED PRICE, TO THE NEAREST CENT, FOR A PORTABLE CD PLAYER ORIGINALLY PRICED AT \$59.95. WE WILL EXPLORE THE CONCEPTS OF DISCOUNTS, HOW TO CALCULATE THE DISCOUNTED PRICE ACCURATELY, THE IMPORTANCE OF PRECISE CALCULATIONS IN RETAIL, AND OFFER INSIGHTS INTO POTENTIAL DISCOUNTS AND STRATEGIES FOR ENSURING YOU'RE GETTING THE BEST DEAL.

UNDERSTANDING THE CONCEPT OF DISCOUNTED PRICES

WHAT IS A DISCOUNT PRICE?

A DISCOUNT PRICE IS THE REDUCED AMOUNT A CUSTOMER PAYS FOR A PRODUCT AFTER A RETAILER APPLIES A REDUCTION FROM THE ORIGINAL OR LISTED PRICE. DISCOUNTS ARE A COMMON MARKETING STRATEGY USED BY RETAILERS TO ATTRACT CUSTOMERS, CLEAR INVENTORY, OR PROMOTE SPECIFIC PRODUCTS. THE DISCOUNTED PRICE ENCOURAGES CONSUMERS TO MAKE A PURCHASE BY PROVIDING AN INCENTIVE OVER THE REGULAR PRICE.

KEY ELEMENTS OF A DISCOUNT:

- ORIGINAL PRICE: THE INITIAL LISTED PRICE OF THE PRODUCT (\$59.95 IN OUR CASE).
- DISCOUNT RATE: THE PERCENTAGE OR FIXED AMOUNT SUBTRACTED FROM THE ORIGINAL PRICE.
- DISCOUNTED PRICE: THE FINAL PRICE AFTER APPLYING THE DISCOUNT.

THE SIGNIFICANCE OF CALCULATING ACCURATE DISCOUNTED PRICES

CALCULATING THE PRECISE DISCOUNTED PRICE IS VITAL FOR CONSUMERS TO UNDERSTAND THE TRUE VALUE OF A DEAL. AN INACCURATE CALCULATION COULD LEAD TO OVERPAYING OR MISSING OUT ON POTENTIAL SAVINGS. FOR RETAILERS, PRECISE CALCULATIONS UPHOLD TRUSTWORTHINESS AND TRANSPARENCY, ESSENTIAL FOR LONG-TERM CUSTOMER LOYALTY.

METHODS TO CALCULATE DISCOUNTED PRICES

CALCULATING A DISCOUNTED PRICE INVOLVES STRAIGHTFORWARD MATHEMATICAL FORMULAS. THE SPECIFIC METHOD DEPENDS ON WHETHER THE DISCOUNT IS EXPRESSED AS A PERCENTAGE OR A FIXED DOLLAR AMOUNT.

WHEN DISCOUNT IS GIVEN AS A PERCENTAGE

MOST DISCOUNTS ARE PRESENTED AS A PERCENTAGE OF THE ORIGINAL PRICE. THE FORMULA TO CALCULATE THE DISCOUNTED PRICE WHEN THE DISCOUNT RATE IS KNOWN IS:

DISCOUNTED PRICE = ORIGINAL PRICE - (ORIGINAL PRICE × DISCOUNT RATE)

ALTERNATIVELY, IT CAN BE WRITTEN AS:

DISCOUNTED PRICE = ORIGINAL PRICE × (1 - DISCOUNT RATE)

EXAMPLE: SUPPOSE THE PORTABLE CD PLAYER IS OFFERED AT A 20% DISCOUNT.

- DISCOUNT RATE = 20% = 0.20
- DISCOUNTED PRICE = \$59.95 × (1 - 0.20) = \$59.95 × 0.80 = \$47.96

IN THIS CASE, THE DISCOUNTED PRICE WOULD BE \$47.96.

WHEN DISCOUNT IS GIVEN AS A FIXED AMOUNT

IF THE DISCOUNT IS SPECIFIED AS A FIXED DOLLAR AMOUNT, THE CALCULATION IS SIMPLER:

DISCOUNTED PRICE = ORIGINAL PRICE - DISCOUNT AMOUNT

EXAMPLE: IF THE DISCOUNT IS \$10:

- DISCOUNTED PRICE = \$59.95 - \$10 = \$49.95

APPLYING THE CALCULATION TO FIND THE DISCOUNTED PRICE

SINCE THE INITIAL PROMPT INVOLVES FINDING THE DISCOUNTED PRICE FOR A PORTABLE CD PLAYER SELLING AT \$59.95, BUT DOES NOT SPECIFY THE DISCOUNT RATE OR AMOUNT, WE'LL EXPLORE COMMON SCENARIOS AND HOW TO APPROACH THEM.

SCENARIO 1: DISCOUNT RATE IS KNOWN

SUPPOSE THE RETAILER ADVERTISES A 15% DISCOUNT ON THE PORTABLE CD PLAYER.

STEP-BY-STEP CALCULATION:

1. CONVERT THE PERCENTAGE TO DECIMAL: 15% = 0.15
2. CALCULATE THE DISCOUNT AMOUNT: \$59.95 × 0.15 = \$8.9925
3. SUBTRACT THE DISCOUNT FROM THE ORIGINAL PRICE: \$59.95 - \$8.9925 = \$50.9575

ROUNDING TO THE NEAREST CENT:

- THE DISCOUNTED PRICE = \$50.96

ANALYSIS:

THIS EXAMPLE DEMONSTRATES HOW A SEEMINGLY SMALL PERCENTAGE CAN IMPACT THE FINAL PRICE AT THE CENT LEVEL. RETAILERS OFTEN ROUND PRICES TO THE NEAREST CENT, AND CONSUMERS NEED TO BE AWARE OF HOW THIS ROUNDING MAY AFFECT THE ACTUAL PRICE PAID.

SCENARIO 2: DISCOUNT AMOUNT IS KNOWN

SUPPOSE THE PORTABLE CD PLAYER IS DISCOUNTED BY \$10.

CALCULATION:

- DISCOUNTED PRICE = \$59.95 - \$10 = \$49.95

IMPLICATION:

A FIXED DISCOUNT SIMPLIFIES THE CALCULATION, BUT CONSUMERS SHOULD VERIFY IF ADDITIONAL DISCOUNTS OR TAXES APPLY, WHICH COULD FURTHER INFLUENCE THE FINAL PRICE.

SCENARIO 3: UNKNOWN DISCOUNT RATE OR AMOUNT

IF THE DISCOUNT RATE OR AMOUNT ISN'T SPECIFIED, CONSUMERS SHOULD LOOK FOR PROMOTIONAL SIGNAGE, ADVERTISEMENTS, OR INQUIRE DIRECTLY WITH THE RETAILER. ONCE THE DISCOUNT DETAILS ARE ESTABLISHED, THE CALCULATIONS ABOVE CAN BE APPLIED.

IMPORTANCE OF PRECISE CALCULATION AND ROUNDING

IN FINANCIAL TRANSACTIONS, ESPECIALLY IN RETAIL, PRECISION MATTERS. CALCULATING TO THE EXACT CENT ENSURES TRANSPARENCY AND HELPS CONSUMERS MAKE ACCURATE COMPARISONS ACROSS DIFFERENT DEALS.

ROUNDING RULES IN PRICING

- STANDARD PRACTICE: PRICES ARE ROUNDED TO THE NEAREST CENT.
- ROUNDING UP: IF THE THIRD DECIMAL DIGIT IS 5 OR MORE, ROUND UP.
- ROUNDING DOWN: IF LESS THAN 5, ROUND DOWN.

EXAMPLE: AN UNROUNDED DISCOUNTED PRICE OF \$50.9575 ROUNDS TO \$50.96.

IMPLICATIONS FOR CONSUMERS AND RETAILERS

FOR CONSUMERS

- ALWAYS CLARIFY THE DISCOUNT RATE OR AMOUNT.
- USE PRECISE CALCULATIONS TO COMPARE DEALS EFFECTIVELY.

- BE AWARE OF ADDITIONAL COSTS LIKE TAXES THAT MAY ALTER THE FINAL PAYMENT.

FOR RETAILERS

- ACCURATE PRICING FOSTERS TRUST.
- CLEAR COMMUNICATION OF DISCOUNTS AVOIDS CUSTOMER DISSATISFACTION.
- PROPER ROUNDING ENSURES COMPLIANCE WITH PRICING STANDARDS AND REGULATIONS.

ADDITIONAL CONSIDERATIONS IN DISCOUNTED PRICING

1. PROMOTIONAL PERIODS: DISCOUNTS MAY BE TIME-LIMITED, AND PRICES CAN FLUCTUATE ACCORDINGLY.
2. BUNDLE DEALS: SOME RETAILERS OFFER DISCOUNTS ON BUNDLES, WHICH REQUIRE COMBINED CALCULATIONS.
3. MULTIPLE DISCOUNTS: WHEN STACKING DISCOUNTS, CALCULATIONS MUST CONSIDER SEQUENTIAL REDUCTIONS.
4. TAXES AND FEES: FINAL PRICE MAY INCLUDE APPLICABLE SALES TAX OR ADDITIONAL FEES, WHICH SHOULD BE ADDED AFTER CALCULATING THE DISCOUNTED PRICE.

CONCLUSION: CALCULATING THE FINAL PRICE FOR THE PORTABLE CD PLAYER

TO DETERMINE THE DISCOUNTED PRICE OF A PORTABLE CD PLAYER ORIGINALLY PRICED AT \$59.95, ONE MUST KNOW THE SPECIFIC DISCOUNT RATE OR AMOUNT. USING THE FORMULAS PROVIDED:

- FOR PERCENTAGE DISCOUNTS: MULTIPLY THE ORIGINAL PRICE BY (1 - DISCOUNT RATE) AND ROUND TO THE NEAREST CENT.
- FOR FIXED DISCOUNTS: SUBTRACT THE DISCOUNT AMOUNT FROM THE ORIGINAL PRICE.

WITHOUT SPECIFIC DISCOUNT DETAILS, THE BEST APPROACH IS TO SEEK CLARITY FROM THE RETAILER OR PROMOTIONAL MATERIALS. ONCE THE DISCOUNT RATE OR AMOUNT IS KNOWN, APPLYING THE APPROPRIATE FORMULA ENSURES AN ACCURATE AND PRECISE CALCULATION. REMEMBER, THE KEY TO MAKING SMART PURCHASING DECISIONS LIES IN UNDERSTANDING THESE CALCULATIONS, PAYING ATTENTION TO ROUNDING, AND CONSIDERING ADDITIONAL COSTS.

FINAL NOTE: ALWAYS VERIFY THE FINAL PRICE AT CHECKOUT, INCLUDING ANY TAXES OR FEES, TO CONFIRM YOU ARE PAYING THE CORRECT DISCOUNTED AMOUNT. THIS DILIGENCE ENSURES THAT CONSUMERS MAXIMIZE THEIR SAVINGS AND AVOID OVERPAYING FOR THEIR PORTABLE ENTERTAINMENT DEVICES.

SUMMARY TABLE:

SCENARIO	CALCULATION	FINAL PRICE (TO NEAREST CENT)
15% DISCOUNT ON \$59.95	$\$59.95 \times 0.85 = \50.9575	\$50.96
\$10 FIXED DISCOUNT	$\$59.95 - \$10 = \$49.95$	\$49.95
UNKNOWN DISCOUNT DETAILS	N/A	N/A

IN ESSENCE, UNDERSTANDING HOW TO ACCURATELY COMPUTE DISCOUNTED PRICES EMPOWERS CONSUMERS AND RETAILERS ALIKE, FOSTERING TRANSPARENCY AND TRUST IN EVERYDAY TRANSACTIONS.

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