

# Consumer Math: Percentages Worksheet

## Consumer Math and Percentages

Percentages are used every day when shopping, calculating sales tax, leaving tips, earning interest, and finding discounts. Use the information provided to solve each problem.

**Part A: Discounts and Sale Prices** - Find the amount of the discount and the sale price.

**Formula:**

$$\text{Discount} = \text{Original Price} \times \text{Percent Discount}$$

$$\text{Sale Price} = \text{Original Price} - \text{Discount}$$

1. A jacket costs \$80 and is on sale for 25% off.

Discount: \$\_\_\_\_\_ Sale Price: \$\_\_\_\_\_

2. A video game costs \$60 and is on sale for 15% off.

Discount: \$\_\_\_\_\_ Sale Price: \$\_\_\_\_\_

3. A bicycle costs \$250 and is discounted by 20%.

Discount: \$\_\_\_\_\_ Sale Price: \$\_\_\_\_\_

4. A backpack costs \$45 and is discounted by 10%.

Discount: \$\_\_\_\_\_ Sale Price: \$\_\_\_\_\_

5. A television costs \$500 and is discounted by 30%.

Discount: \$\_\_\_\_\_ Sale Price: \$\_\_\_\_\_

**Part B: Sales Tax** - Find the sales tax and total cost.

**Formula:**

$$\text{Sales Tax} = \text{Price} \times \text{Tax Rate}$$

$$\text{Total Cost} = \text{Price} + \text{Sales Tax}$$

6. A pair of shoes costs \$70. Sales tax is 8%.

Sales Tax: \$\_\_\_\_\_ Total Cost: \$\_\_\_\_\_

7. A phone case costs \$25. Sales tax is 7%.

Sales Tax: \$\_\_\_\_\_ Total Cost: \$\_\_\_\_\_

8. A laptop costs \$800. Sales tax is 6%.

Sales Tax: \$\_\_\_\_\_ Total Cost: \$\_\_\_\_\_

9. A desk costs \$120. Sales tax is 9%.

Sales Tax: \$\_\_\_\_\_ Total Cost: \$\_\_\_\_\_

10. A gaming console costs \$300. Sales tax is 5%.

Sales Tax: \$\_\_\_\_\_ Total Cost: \$\_\_\_\_\_

**Part C: Tips** - Find the tip amount and total bill.

11. Restaurant bill: \$40 | Tip: 15%

Tip Amount: \$ \_\_\_\_\_ Total Bill: \$ \_\_\_\_\_

12. Restaurant bill: \$55 | Tip: 20%

Tip Amount: \$ \_\_\_\_\_ Total Bill: \$ \_\_\_\_\_

13. Restaurant bill: \$72 | Tip: 18%

Tip Amount: \$ \_\_\_\_\_ Total Bill: \$ \_\_\_\_\_

14. Restaurant bill: \$30 | Tip: 25%

Tip Amount: \$ \_\_\_\_\_ Total Bill: \$ \_\_\_\_\_

15. Restaurant bill: \$90 | Tip: 15%

Tip Amount: \$ \_\_\_\_\_ Total Bill: \$ \_\_\_\_\_

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**Part D: Interest** - Find the simple interest earned.

**Formula:**

$$\text{Interest} = \text{Principal} \times \text{Rate} \times \text{Time}$$

16. \$500 invested at 4% for 1 year.

Interest: \$ \_\_\_\_\_

17. \$1,000 invested at 5% for 2 years.

Interest: \$ \_\_\_\_\_

18. \$800 invested at 3% for 3 years.

Interest: \$ \_\_\_\_\_

19. \$2,000 invested at 6% for 1 year.

Interest: \$ \_\_\_\_\_

20. \$1,500 invested at 4% for 2 years.

Interest: \$ \_\_\_\_\_

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**Part E: Real-Life Consumer Math Problems**

21. A \$120 jacket is marked down by 25%. What is the sale price?

Sales Price: \$ \_\_\_\_\_

22. A customer buys a \$45 item and pays 8% sales tax. What is the total cost?

Total Cost: \$ \_\_\_\_\_

23. A family spends \$80 at a restaurant and leaves a 20% tip. How much is the tip?

Tip: \$ \_\_\_\_\_

24. A savings account contains \$2,500 and earns 4% interest for one year. How much interest is earned?

Earned Interest: \$ \_\_\_\_\_

25. A television originally costs \$900 and is discounted by 15%. What is the sale price?

Sales Price: \$ \_\_\_\_\_