Discount, Tax, and Tip

Name: _____	Date: _____	Score: _____ / 18

Quick Review and Helpful Hints

A discount, tax, or tip is a *percent of the price*. Change the percent to a decimal and multiply by the price to get the amount. For a final price, *subtract* a discount or *add* tax or a tip. A shortcut for a total with tax/tip is to multiply the price by $(1 + \text{rate})$.

▷ **Example:** A $\$50$ item has 8% sales tax. Find the tax and the total.
Work: Tax is 8% of $\$50$: $0.08 \times 50 = 4$. The total adds it on: $50 + 4$.
★ **Answer:** tax $\$4$, total $\$54$

8% of $50

= $4 tax

Multiply the percent by the price.

Practice Problems

Find each amount or final price.

1. 10% tax on $\$20$ _____
2. 25% discount on $\$80$ _____
3. 15% tip on $\$40$ _____
4. 8% tax on $\$50$ _____
5. 20% discount on $\$60$ _____
6. 5% tax on $\$200$ _____
7. 18% tip on $\$50$ _____
8. 30% discount on $\$90$ _____
9. Final price: $\$40$ with 10% off _____
10. Final price: $\$25$ with 8% tax _____
11. 50% discount on $\$48$ _____
12. 20% tip on $\$35$ _____
13. Final price: $\$80$ with 25% off _____
14. Final price: $\$100$ with 6% tax _____

Word Problems

15. A $\$120$ jacket is 25% off. What is the sale price?
16. A $\$60$ restaurant meal gets a 20% tip. How much is the tip?
17. A $\$200$ TV has 7% sales tax. What is the total cost?
18. A $\$45$ item is 10% off. What is the final price?

Answer Keys

1. $2	**7.** $9	**13.** $60
2. $20 off	**8.** $27 off	**14.** $106
3. $6	**9.** $36	**15.** $90
4. $4	**10.** $27	**16.** $12
5. $12 off	**11.** $24 off	**17.** $214
6. $10	**12.** $7	**18.** $40.50

Step-by-Step Explanations

1. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Tax is a percent of the price. Change 10% to 0.10 and multiply: $0.10 \times 20 = \$2$. So the final answer is $\$2$.

2. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Change 25% to 0.25 and multiply by the price: $0.25 \times 80 = \$20$ off. So the final answer is $\$20$ off.

3. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is A tip is a percent of the bill: $0.15 \times 40 = \$6$. So the final answer is $\$6$.

4. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $0.08 \times 50 = \$4$. So the final answer is $\$4$.

5. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $0.20 \times 60 = \$12$ off. So the final answer is $\$12$ off.

6. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $0.05 \times 200 = \$10$. So the final answer is $\$10$.

7. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $0.18 \times 50 = \$9$. So the final answer is $\$9$.

8. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $0.30 \times 90 = \$27$ off. So the final answer is $\$27$ off.

9. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is First find the discount: $0.10 \times 40 = \$4$. Subtract it from the price: $40 - 4 = \$36$. So the final answer is $\$36$.

10. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is First find the tax: $0.08 \times 25 = \$2$. Add it to the price: $25 + 2 = \$27$. So the final answer is $\$27$.

11. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $0.50 \times 48 = \$24$ off. So the final answer is $\$24$ off.

12. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $0.20 \times 35 = \$7$. So the final answer is $\$7$.

13. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Discount $0.25 \times 80 = \$20$; subtract: $80 - 20 = \$60$. So the final answer is $\$60$.

14. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Tax $0.06 \times 100 = \$6$; add: $100 + 6 = \$106$. So the final answer is $\$106$.

15. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is The discount is $0.25 \times 120 = \$30$. The sale price is $120 - 30 = \$90$. So the final answer is $\$90$.

16. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is A 20% tip on $\$60$ is $0.20 \times 60 = \$12$. So the final answer is $\$12$.

17. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is The tax is $0.07 \times 200 = \$14$. The total is $200 + 14 = \$214$. So the final answer is $\$214$.

18. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is The discount is $0.10 \times 45 = \$4.50$. The final price is $45 - 4.50 = \$40.50$. So the final answer is $\$40.50$.

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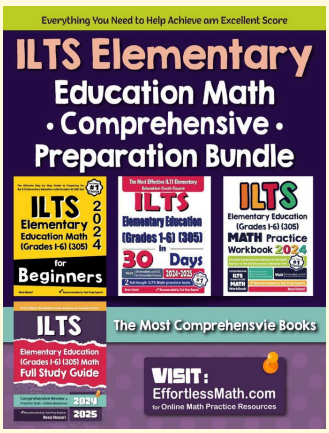

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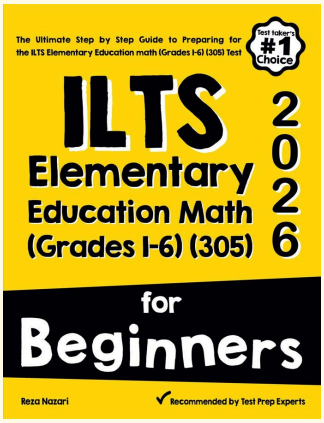

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