

# Tips, Commissions, and Fees

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 18

## Quick Review and Helpful Hints

A tip, commission, or fee is a *percent of an amount*. Multiply the amount by the percent (as a decimal). To find a *total* that includes a tip, add the tip to the original amount.

▶ **Example:** Find a 15% tip on a \$40 bill. **Work:** Change 15% to 0.15 and multiply by the bill:  $0.15 \times 40$ . **★ Answer:** \$6



Tip = percent of the bill.

### Practice Problems

Find each tip, commission, fee, or total.

- |                           |       |                            |       |
|---------------------------|-------|----------------------------|-------|
| 1. 15% tip on \$40        | _____ | 8. 20% tip on \$35         | _____ |
| 2. 20% tip on \$50        | _____ | 9. 15% tip on \$20         | _____ |
| 3. 10% tip on \$30        | _____ | 10. 6% commission on \$500 | _____ |
| 4. 5% commission on \$200 | _____ | 11. 10% tip on \$45        | _____ |
| 5. 10% fee on \$100       | _____ | 12. 8% fee on \$50         | _____ |
| 6. 18% tip on \$50        | _____ | 13. 30% commission on \$90 | _____ |
| 7. 25% commission on \$80 | _____ | 14. 20% tip on \$60        | _____ |

### Word Problems

15. A \$40 meal gets a 20% tip. Find the tip. \_\_\_\_\_
16. A salesperson earns 5% on \$2000 in sales. Find the commission. \_\_\_\_\_
17. A group has a \$60 dinner bill and agrees to leave a 15% tip before splitting the check. How much should they leave for the tip? \_\_\_\_\_
18. A \$50 service has a 10% fee added. Find the total cost. \_\_\_\_\_



## Answer Keys

- |         |            |           |
|---------|------------|-----------|
| 1. \$6  | 7. \$20    | 13. \$27  |
| 2. \$10 | 8. \$7     | 14. \$12  |
| 3. \$3  | 9. \$3     | 15. \$8   |
| 4. \$10 | 10. \$30   | 16. \$100 |
| 5. \$10 | 11. \$4.50 | 17. \$9   |
| 6. \$9  | 12. \$4    | 18. \$55  |

### 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  $0.15 \times 40 = \$6$ . So the final answer is \$6.
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  $0.20 \times 50 = \$10$ . So the final answer is \$10.
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  $0.10 \times 30 = \$3$ . So the final answer is \$3.
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  $0.05 \times 200 = \$10$ . So the final answer is \$10.
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  $0.10 \times 100 = \$10$ . So the final answer is \$10.
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  $0.18 \times 50 = \$9$ . So the final answer is \$9.
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  $0.25 \times 80 = \$20$ . So the final answer is \$20.
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  $0.20 \times 35 = \$7$ . So the final answer is \$7.
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  $0.15 \times 20 = \$3$ . So the final answer is \$3.

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  $0.06 \times 500 = \$30$ . So the final answer is \$30.
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  $0.10 \times 45 = \$4.50$ . So the final answer is \$4.50.
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  $0.08 \times 50 = \$4$ . So the final answer is \$4.
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  $0.30 \times 90 = \$27$ . So the final answer is \$27.
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  $0.20 \times 60 = \$12$ . So the final answer is \$12.
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  $0.20 \times 40 = \$8$ . So the final answer is \$8.
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  $0.05 \times 2000 = \$100$ . So the final answer is \$100.
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  $0.15 \times 60 = \$9$ . So the final answer is \$9.
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  $50 + 0.10 \times 50 = 50 + 5 = \$55$ . So the final answer is \$55.



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