

LESSON
2-10**Practice B*****Applications of Percents*****Solve each problem.**

1. Mr. Holtzclaw sells his home for \$240,000.
He must pay the real estate agents a 5% commission. How much is the commission? _____
2. A textbook salesperson is paid a base salary of \$35,000 plus a 3% commission on sales.
Her total sales last year were \$620,000. Find her total pay last year. _____
3. A music publisher earns a 6.75% commission on the money made from the use of a song on a CD.
If the music publisher earns \$84,375, how much money was made from the use of the song? _____
4. Find the simple interest earned after 5 years on \$1200 invested at 2% annual interest rate. _____
5. After 6 months, \$1.78 simple interest was earned on an investment of \$890. Find the annual interest rate. _____
6. Ms. Pecho currently owes \$637.50 simple interest on a loan of \$2500 at an annual interest rate of 17%. How long has she had the loan? _____
7. The lunch check for Tawfiq and Helen is \$16.98.
Estimate the tip using a rate of 15%. _____
8. The state sales tax rate in North Carolina is 4.5%.
Estimate the state sales tax on a model of the Wright Brothers' airplane that costs \$139.99. _____
9. A wedding reception is held at a restaurant in Mississippi. The food and drinks cost \$1492.50.
The state sales tax rate is 7%, and the restaurant automatically adds a 20% tip for large parties.
 - a. Estimate the state sales tax. _____
 - b. Estimate the tip. _____
 - c. Estimate the total bill for food, drinks, tax, and tip. _____

7. 28%
8. 26%
9. 190%
10. 3
11. 3
12. 96
13. 6.9
14. 25%
15. 8.3%
16. 79
17. 160
18. 1.7 million
19. 22%

Practice C

1. 0.705; $\frac{141}{200}$
2. 4.2% or $4\frac{1}{5}\%$; $\frac{21}{500}$
3. 152%; 1.52
4. 76%
5. 170
6. 306
7. 11.1% or $11\frac{1}{9}\%$
8. 1.6
9. 103.3
10. 107.1 GB
11. 14.3%
12. 160.0 GB

Review for Mastery

1. percent; whole; 3.2
2. part; percent; whole; 40
3. percent; whole; part; 15%
4. part; percent; whole; 22.5
5. 20%; what number; 7
6. 50%; 92; what number
7. What percent; 40; 14
8. 65%; 80; what number
9. 35
10. 5%

Challenge

1. \$162.50
2. \$97.50
3. 85% of \$130 is \$110.50, not \$97.50
4. a 30% markup followed by a 15% markdown
5. Multiply the original amount by one plus the decimal or fractional form of the markup and then multiply that amount by one minus the decimal or fractional form of the markdown.
6. \$97.50
7. \$58.50

8. a 30% markdown followed by a 15% markdown
9. Multiply the original amount by one minus the decimal or fractional form of the markdown and then multiply that amount by one minus the decimal or fractional form of the next markdown.

Problem Solving

1. 4 grams
2. 720 mg
3. 17.7%
4. 18.5%
5. B
6. F
7. D
8. H

Reading Strategies

1. 56
2. 12
3. 20
4. percent
5. whole
6. part
7. 40
8. 15

LESSON 2-10

Practice A

1. 3%; 795; \$795
2. 0.025; 3; 112.5; \$112.50
3. \$20; \$20; \$2.00; \$2.00; \$1.00; \$3.00
4. \$425
5. 8%
6. about \$1.60

Practice B

1. \$12,000
2. \$53,600
3. \$1,250,000
4. \$120
5. 0.4%
6. 1.5 years
7. about \$2.55
8. about \$6.30
9. a. about \$105
- b. about \$300
- c. about \$1900

Practice C

1. 40 years
2. \$41.04
3. about \$0.75
4. 3%
5. about \$8.25
6. \$1469.53
7. \$292.00