

Worksheet 4.7

Consumer Applications.

Solve the problem. See examples on pages 251-255 in text.

- The total price (including sales tax) of a VCR is \$230.12. The sales tax rate is 4%. What is the purchase price of the VCR (the price before taxes are added)? Round your answer to the nearest cent.

A) \$164.37 B) \$223.42 C) \$221.27 D) \$219.16
- A set of dining room chairs costs \$323. The sales tax is \$22.61. What is the sales tax rate.

A) 8% B) 9% C) 7% D) 0.7%
- A real estate agent's commission rate is 11%. She receives a commission of \$26,433 on the sale of a home. How much did the home sell for?

A) \$29,341 B) \$213,867 C) \$266,733 D) \$240,300
- In a sale, the price of a computer is reduced by \$269. The sale price is \$1231. Find the rate of discount.

A) 17.9% B) 21.9% C) 28% D) 10%
- The regular price of a ring is \$934.50. During a May jewelry sale, the ring was discounted 25%. What was the sale price of the ring?

A) \$700.88 B) \$234.63 C) \$233.62 D) \$701.88

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Find the missing values. See examples on page 253 in text.

6.

| Original Price | Rate of Discount | Discount | Sale Price |
|----------------|------------------|----------|------------|
| | 12% | \$9.96 | |

- A) \$83, \$73.04 B) \$119.52, \$109.56 C) \$1.20, \$8.76 D) \$73.04, \$9.83

Find the simple interest. See examples on page 253 in text.

7.

| Interest | Principle | Rate | Time |
|----------|-----------|------|----------|
| | \$600 | 12% | 9 months |

- A) \$54.00 B) \$8.00 C) \$5400.00 D) \$648.00

Solve. Assume that **simple interest** is being calculated in each case. See examples on page 255 in text.

8. Allan borrowed \$5400 from his father to buy a used car. He repaid his father after 8 months with interest of 9% per year. Find the total amount he repaid.

- A) \$5886.00 B) \$5724.00 C) \$324.00 D) \$5683.50

Multiply. Do not use a calculator. See examples on pages 155-156 in text.

9.
$$\begin{array}{r} 8.79 \\ \times 0.084 \\ \hline \end{array}$$

- A) 0.738 36 B) 73,836 C) 10,548 D) 0.105 48

Divide. Do not use a calculator. See examples on pages 165-166 in text.

10. $4 \div 0.04$

- A) 1 B) 0.1 C) 100 D) 10