Study Guide and Intervention (continued)

Using Percent Equationsities of the Using Percent Equations 1997 and 1997 a

Solve Problems The percent equation can be used to solve real-world problems. Percent Equations A recent equation is an equivalent form of a

REAL ESTATE A commission is the fee paid to the real estate agent based on a percent of sales. If a real estate agent's commission is 3% and the house sold for \$150,000, how much was the real estate agent's commission?

The whole is \$150,000. The percent is 3%. You need to find the amount of the commission, or the part. Let c represent the amount of the commission.

part = percent whole vines for \$40 would be 4 \$3 or \$12.

Subtract the savings from the original price \$40 \$10 \$12 \$20.

$$c = 0.03 \cdot 150,000 \text{ To Write the percent equation, writing 3% as a decimal.}$$

(60)22.0 = π

So, the real estate agent made \$4500 in commission.

Exercises very \$10.1 pave \$1. and his repry \$1.1 mag goats

- So. 90 ia 20% of 450. 1. RUNNING Emily is in training for a marathon. She ran 4 miles every day this week. She wants to increase her distance every week by 25%. How many miles a day will she run next week?
- 2. TESTS Juan got 15 questions correct on his pretest. He wants to get 20% more correct on his post test. How many questions does he want to get correct on his post test?
- 3. CALORIES The average person should eat around 2000 Calories a day. If Susan ate 1500 Calories, what percent of the average person's total did she eat? I to 2001 books.
- 4. COMPUTERS Chan bought a \$600 computer, but his total was \$648. What percent sales tax did he pay? Qd& to toported tailw ai 1.21. 11. 15 t is what percent of 55?
- 5. JEANS Jodi found a pair of jeans on sale for \$90. Her friend told her that was only 75% of the original price. What was the original price of the jeans?

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