Worksheet **4.6**

Applications of Percents.

Solve the problem. See examples on pages 241-246 in text.

1. An insurance fund invests $55,600 in real estate and earns 4% per year on the investment. How much money is earned per year?

   A) $1,390,000   B) $2224   C) $22,240   D) $139,000

2. The appliance store where the Lopez family shops offers a 9% discount for paying cash. The Lopez family received a discount of $42. What was their bill before the discount?

   A) $467   B) $400   C) $4   D) $5

3. On a biology test, a student got 25 questions correct but did not pass the test. On a second attempt, the student got 33 questions correct. What was the percent of increase?

   A) 24.2%   B) 68%   C) 8%   D) 32%

4. By switching service providers, a family's telephone bill decreased from about $50 a month to about $46. What was the percent of decrease?

   A) 8.7%   B) 4%   C) 8%   D) 9%

5. The normal gas mileage of a certain car is 41 mpg (miles per gallon). On a smooth road, its mileage is 12% higher. What is its mileage on a smooth road. Round your answer to the nearest tenth.

   A) 41.0 mpg   B) 45.9 mpg   C) 4.9 mpg   D) 50.0 mpg

6. After spending $1950 for tables and $4050 for chairs, a store manager finds that the furniture cost 8% more than last year. Find the amount that was spent last year on tables and chairs. Round your answer to the nearest dollar.

A) $6522   B) $5556   C) $4402   D) $408

Solve the problem. See examples on page 251 in text.

7. A camera cost $690. If the sales tax is 8%, how much tax is charged and what is the total price. Round your answers to the nearest cent.

A) $48.30, $738.30   B) $55.20, $745.20   C) $552.00, $1242.00   D) $62.10, $752.10

8. The sales tax rate in one state is 5.5%. How much tax will be charged on a purchase of 3 chairs at $39 apiece? Round your answer to the nearest cent.

A) $64.35   B) $2.15   C) $41.15   D) $6.44

Divide. See examples on pages 165-167 in text.

9. $1.5 \div 0.06$

A) 0.025   B) 25   C) 20   D) 0.25

10. $\dfrac{637.5271}{0.001}$

A) 6,375,271   B) 0.637 527 1   C) 0.063 752 71   D) 637,527.1