Name:

Computation Monday: May 8, 2017

Directions: You are allowed to use calculators on this assignment. Use the Percent Increase and Decrease formula, Simple Interest formula (I=prt), the Percent Equation, or the Percent Proportion to solve the problems. You will lose points for not following directions. **Work MUST be shown to receive credit and NO INK!!!**

Example: What is the interest on $200 borrowed for 3 years at 10% rate?

**Interest** = $200 (the **principal**) x .10 (the **rate** 10% as a decimal) x 3 (the **time** in years) = $60.

Note: The **total** amount owed back is principal + interest = $200 + $60 = $260.

|  |  |
| --- | --- |
| You borrow $50 for 3 years at 2.5% interest rate. What is the interest owed? | |
| The principal is \_\_\_\_\_\_\_\_\_\_\_\_\_\_  The rate is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The time in years is \_\_\_\_\_\_\_\_\_\_\_ | I = prt  The interest owed is \_\_\_\_\_\_\_\_\_\_\_\_ |
| $700 is earning 8% simple interest for 6 months. What is the interest earned? | |
| The principal is \_\_\_\_\_\_\_\_\_\_\_\_\_\_  The rate is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The time in years is \_\_\_\_\_\_\_\_\_\_\_ | I = prt  The interest earned is \_\_\_\_\_\_\_\_\_\_\_\_ |
| $3,000 is earning 12% simple interest for 8 months. What is the interest earned? | |
| The principal is \_\_\_\_\_\_\_\_\_\_\_\_\_\_  The rate is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The time in years is \_\_\_\_\_\_\_\_\_\_\_ | I = prt  The interest earned is \_\_\_\_\_\_\_\_\_\_\_\_ |

4) Carlos loaned his nephew $5,500 to buy a used car. His nephew agreed to pay him back in 1 year. At the end of the year, the nephew had paid his uncle a total of $6,050. What interest rate did his uncle charge?

5) Bill borrowed $26,000 for 9 months at a 9% annual interest rate. However, Bill received a bonus from his boss and was able to repay the loan in 3 months. How much interest did Bill save by paying the loan early?

6) The price of a $500 item is increased by 20 % and THEN decreased by 20 % of that price. Is the final price $500? Explain/Show your answer – This is tricky!

7) Pamela bought an electric drill at 85% of the regular price. She paid $32.89 for the drill. What was the regular price? (Round to the nearest cent)

8) At a sale, shirts were sold for $15 each. This price was 80% of their original price. What was the original price?

**9) Your neighbor had to drop the selling price of her home from $180,000 to $165,000. What percent did the price get lowered? (Round to the nearest tenth)**

**10) Your boss gave you a raise. Your weekly salary went from $375 to $450.** What was your percent raise?