

Name \_\_\_\_\_  
Real World Math

Date \_\_\_\_\_  
Period \_\_\_\_\_

**Unit 2—Quiz 1 REVIEW**  
**Car Loans, Miles Per Gallon, & Percent Increase**

**Directions:** Show all your work (including whatever you enter into the financial application on the calculator). If necessary, round to the nearest *hundredth*.

- 1) You found a car that you like for \$32,000. Bank #1 offered you a 3-year car loan with an interest rate of 4.75% so the monthly payments will be \$956.
  - a) How many months will you make this payment?
  - b) What is the total cost of the car including the interest over 3 years?
  - c) How much interest will you pay over the 3-year loan period?
  - d) What is the percent increase in the cost of the car with this loan?
  
- 2) Bank #2 offered you a 5-year car loan with an interest rate of 6%. For the \$32,000 car, your monthly payments would be \$619.
  - a) How many months will you make this payment?
  - b) What is the total cost of the car including the interest over 5 years?
  - c) How much interest will you pay over the 5-year loan period?
  - d) What is the percent increase in the cost of the car with this loan?

- 3) Which car loan would you prefer for the \$32,000 car you like - Bank #1 or Bank #2? Explain why.
- 4) You are trying to figure out what the gas mileage is for your car. You know you have a 15-gallon gas tank. You keep track of how far you traveled on your last tank of gas which is 360 miles. What is your gas mileage?
- 5) Your gas tank holds 18 gallons. If your car gets 32 miles per gallon, how far can you travel on a tank of gas?
- 6) You are taking a trip which is 720 miles. Your car gets 21.5 miles per gallon.
- a) How much gas will you need for the trip?
- b) If gas costs \$4.20 per gallon, how much will the gas for the trip cost?
- 7) A road trip that costs you \$520.00 today would have only cost \$395.00 this time last year! Find the percent increase in the price of gas over the past year.
- 8) A road trip that costs you \$864.00 today would have only cost \$500.00 this time last year! Find the percent increase in the price of gas over the past year.