

Exploring the World of Math

Name: _____ Date: _____

1. This month, we had a new baby and we decide to put \$2000 in a college stock fund that earns 10% annually. After 21 years, we open the fund. What is the amount we expect? Show your work.

2. We will purchase a new \$28000 car. We were in a hurry and we only reduced the price of the car to \$22500 which includes fees and taxes. We will trade in our old car for \$4500. We will finance the balance for 66 months at 2.875% interest. Calculate the monthly finance charge.

3. We save \$125 monthly in a retirement savings fund for 49 years. The interest rate is $13\frac{1}{4}\%$. What is our estimated savings at the end of 49 years?

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4. Terrance, the Vet Tech is involved in purchasing two small test chambers for the local clinic. Each environmental chamber will cost \$5100 apiece. What is the simple interest on a 3.75% business loan for 72 months using the $I=PRT$ formula? What is the total cost of the test chambers?

5. We borrow \$7000 at an interest rate of 6% compounded quarterly for 2 years. What is the future value of the loan? What is the interest on the loan?

6. We will purchase a new \$42000 boat. We will put \$7000 down. We will finance the balance of the loan for 8 years at 3.75% interest. Calculate the monthly finance charge.