

Name: _____ Date: _____

Module 4 Review

1. Your parents took your family out to dinner. Your parents wanted to give the waiter an 18% tip. The restaurant is located in a county where the sales tax is 6.5%. If the total amount of the dinner was \$42.00 (before tax and tip), what is the new total after these are taken into consideration? Solve the problem using 2 different methods. Explain why these are equivalent.

2. A scientist took an experimental measurement and got 10.4 mL. The actual measurement was 9.7 mL. What is the percent error?

Another scientist took an experimental measurement of a different volume and got 58.5 mL. The actual measurement was 61.1 mL. What is the percent error?

Explain why the first measurement, which was “off” by less had a larger percent error.

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3. Kelly deposits \$350 into a savings account. The savings account accrues interest at a flat rate of 1.05% per month. How much will the account be worth in 7 months?

Miranda deposits \$275 into a savings account that accrues interest at a flat rate of 1.30% per month. Whose account is worth more after 7 months, Miranda's or Kelly's?

Pick one value to change for Miranda – interest rate or initial deposit – that will make the value of the two accounts approximately equal after 7 months.

4. Evan sells skateboards in his store. He marks up the prices by 40% of what he pays for them. If he purchases a gold series skateboard for \$128.92, how much will he charge for the skateboard in his store?

He then has a spring sale and marks down the price for the same skateboard by 40%. Does he sell the skateboard for more or less than what he paid for it? Why isn't the price the same as what he bought it for?

List 4 possible reasons why a store owner may markup prices.

1. _____
2. _____
3. _____
4. _____