Name _____ Number_____

End-of-Module 3 Study Guide

1. Brady and his 5 friends decided to all pitch in and buy a videogame. If each spend $4, how much did the video game cost altogether? Write an equation using a **letter** to represent the unknown. Solve.

2. Tana and her 2 friends went to the store to buy some cookies! YUM! _Each friend_ buys one sugar cookie and one cinnamon sugar cookie. Tana only purchases one chocolate chip cookie.

Chocolate Chip	$3
Sugar Cookie	$2
Cinnamon Sugar	$1

a. Use the pricing chart above to find how much they spend altogether. Write equations using **letters** to represent the unknown. Solve. (hint: Think about each cookie individually first!)

b. Tana ran into Ali at the store and he mentally checks part (a) by using $3 x 3. Explain his strategy.

3. Aalia needed to go to the store to get some holiday gifts when she saw a HUGE sale! Compare the crossed out prices to the new sale price (in bold). If all sale prices are calculated in the same way, what would the sale price be on an item that originally cost $36? Use words and equations to explain how you know. (Think about how they could have gotten to the new sale price from the original number. There is a common pattern).

$6->$1	$18 -> $3	$48 -> $8	$12 -> $2