- 1)Bell Ringer: p. 131
- 2) Go over homework p.115(1-4)
- 3) Day 2: Multi Step ratio problems
- 4) Homework: p. 116 (5-7)

$$\frac{1500 \times \frac{3}{4}}{4} = \frac{1,125}{2375}$$

$$\frac{1500}{325} \times \frac{3}{25} \times \frac{3}{25} \times \frac{3}{25}$$

$$\frac{1125}{4} \times \frac{3}{4} \times \frac{1}{4} \times \frac{1}{4}$$

$$\frac{1125}{555} \times \frac{5}{55} \times \frac{5}{55}$$

$$\frac{4}{5} \times \frac{3}{5} \times \frac{5}{5} \times \frac{5}{5}$$

## Example 3: Tax Time

As part of a marketing ploy, some businesses mark up their prices before they advertise a sales event. Some companies use this practice as a way to entice customers into the store without sacrificing their profits.

A furniture store wants to host a sales event to improve their profit margin and to reduce their tax liability before their inventory is taxed at the end of the year.

1

How much profit will be business make on the sale of a couch that is marked-up by  $\overline{3}$  and then sold at  $\underline{a}, \overline{5}$  off discount if the original price is \$2400?

## Example 4: Born to Ride

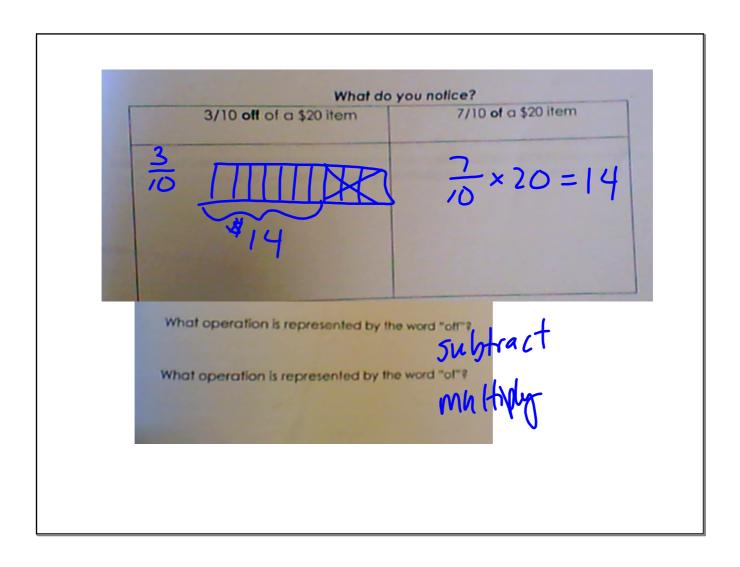
A motorcycle dealer paid a certain price for a motorcycle and marked it up by  $\overline{\bf 5}$  of the price he paid. Later he sold it for \$14,000 what is the original price?

411666.67

14000 14000 ÷ 6 = 2333.33 2333.33 × 5 = 11666.67

Oct 11-8:54 AM

Jim wants to buy an IPod Nano that costs \$150. The store is having a sale for 1/5 off, if he has \$125 in his wallet, does he have enough to make this purchase? Justify your answer.



Lesson Summary:

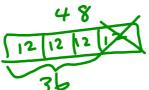
:	Discount price = original price – rate × original price  Commission = rate × total sales amount	<u>OR</u>	(1 - rate) × original price
	Markup price = original price + rate X original price	<u>OR</u>	(1 + rate) × original price

## Homework

What is 32 commission of sales totaling \$24,000?

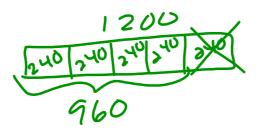
2. DeMarkus says that a store overcharged him on the price of the video game he bought. He thought that the price was marked 1/4 of the original price but it was really 1/4 off the original price. He misread the advertisement. If the original price of the game was \$48, then what was the difference between the price that DeMarkus thought he should pay and the price that the store charged him?

48 1 = 12



36-12-12-12-1

3. What is the cost of a \$1200 washing machine that was on sale for a  $\frac{1}{5}$  discount?



4. If a store advertised a sale that gave customers a  $\overline{\bf 4}$  discount, what is the fraction part of the original price that the customer will pay?

5.	Mark bought an electronic tablet on sale for $\frac{1}{4}$ off its original price of \$825.00. He also wanted to use a coupon for $\frac{1}{2}$ off the sales price. Before taxes, how much did Mark pay for the tablet?
	<u></u>

6.	A car dealer paid a certain price for a car and marked it up by $\overline{\bf 5}$ of the price he paid. Later he sold it for \$24,000 what is the original price?

7.	Joanna ran a mile in physical education class. After resting for one hour, her heart rate was 60 beats per minute. If
	her heart rate decreased by $\overline{\bf 5}$ , what was her heart rate immediately after she ran the mile?