I can **solve real-world percent problems**.

Discounts

To calculate discounts and/or multiple discounts:

Step1: Find the _______you're paying (by subtracting from 100)

Step 2: Change percent to <u>decimal</u> and <u>multiply</u> by original

_____ for multiple discounts Step 3: Repeat

Example 1:

What is the cost of a \$15 pizza if it is 30% off?

Example 2 (You Try):

What is the cost of a \$56.80 stereo marked down 15%?

Example 3:

The original price of a camera was \$60. It was on sale at a 20% discount. Later, the price of the camera was reduced by an additional 25% of the sale price.

What was the final price of the camera?

Example 4 (You Try):

Clarence bought a pair of jeans that were on sale for 25% off, plus an additional 10% off the marked down price. The original price of the jeans was \$40.

What was the final price of the jeans?

Example 5:

Jackson wants to buy a television. The television is \$800 but is marked 10% off. He sees an ad in the paper that reads "get an additional 20% off any already marked down prices." Jackson thinks this means he will get 30% off of \$800. Is he correct or incorrect, and why? Use mathematics to prove your answer.

$$800.90 = $720$$
 $800.0.70 = 560
 $0.80.720 = 576 The are not the same.

Tax and Discount

Step1: Calculate the sale price.

Step 2: Calculate the sales tax based on the sale price.

Step 3: Add tax to total.

Example 1:

A pair of jeans that you want to buy costs \$24.00. The jeans are on sale for 15% off. Sales tax is 7% added to the price. What will the total be at the checkout?

What is the discounted price? \$20.40

What is 7% of the discounted price <u>\$1, 43</u>

What is your final total at checkout $\frac{\$21.83}{}$

Example 2 (You Try):

Aimee is decorating her new house. She found a table at Pier One for \$425. If the table is 25% off and she has to pay a 6% tax, what will be her final price at checkout?

What is the discounted price? $\frac{$318.75}{}$

What is 7% of the discounted price $\frac{22.3}{2}$

What is your final total at checkout \$341.06

Mixed Review (You Try ALL):

1.) A salesman earns 5% commission. If he sold \$180 in product, how much does the salesman make?

2.) A sweatshirt is on sale for \$20.80. If the sweatshirt was marked down 20%, what was the original price?

3.) If you began the week with \$160 and ended the week with \$94, what was the percent change?

4.) A pizza is ordered for delivery. The worker says it will cost \$18 plus tax. If there is a 7% tax, and they plan to tip the driver 10%, what is the total amount paid?

5.) Kohl's marks up their socks 80% to make a profit. If the socks are sold for \$5.40, what is the original price of the socks?

\$3

6.) Last year at Waynesville Middle School, there were 200 students on Honor Roll. If the school hopes to improve this number by 20%, how many students should be on Honor Roll next year?