5.3 Notes -	Percent Applications	NAME:	
Accelerated 7/8	(Discounts, Markups, Sales Tax, Commission, and Tipping)	DATE:	PD:
I CAN			
Solve i	real life percent problems involving		
0	tax	o commissions.	
	gratuities (tip)	o mark-ups and mar	k-downs.
IF YOU TAKE TIME TO THINK ABOUT IT, I BET YOU CAN THINK OF MANY EXAMPLES OF PERCENTS IN YOUR LIFE. GRADES AT SCHOOL, SPORTS STATISTICS, OR TAX AT THE STORE, FOR EXAMPLE, ALL INVOLVE PERCENTS. WE ARE GOING TO USE OUR KNOWLEDGE OF WRITING PERCENTS AS PROPORTIONS TO BECOME BETTER SHOPPERS AND EXPERT TIPPERS AT RESTAURANTS.			
_	Fill in the blanks below using the following words Fax, Discount, Tip, Markup, Wholesale Price, Retail Price, Comi		
	How much a store pays for an item.		
	How much a customer pays for the item. (the	amount on the price t	tag)
	An extra amount given by customers for good	service, usually at res	staurants.
	A decrease from the original price of an item	to the sale price of an	item.
An increase from the <i>wholesale price</i> to the <i>retail</i> price			
An extra charge added to the bill at stores. In Columbus, it is 6.75%			
A percent of the total sales a person makes.			
Markup			
A store buys a product at a cheaper price then they're going to sell it to you. So, they markup their prices so that they make a profit. <i>Find amount of markup, then add to wholesale price.</i>			
Finding a retail price.			
A store buys player?	DVD players for \$50. The store marks up the price by 1	10%. What is the reta	il price of a DVD
1 - How much is the markup? (We are looking for 110% of \$50).			
	The store mark	ks the price up \$	<del></del>
2 - Add the ar	nount of markup to the wholesale price.		
	The store sells	you the DVD player fo	or \$

1.) Pair of shoes: Wholesale price: \$15 Markup: 180%	2.) <b>Video Game:</b> Wholesale price: \$10.50 Markup: 420%	3.) Book: Wholesale: \$13.20 Markup: 95%
	Discounts:	
	ount of the discount or the a	unt on an item. You must be careful if you ctual sale price of the item. <i>Find amount</i>
	Finding a sale pr	ice
Video games are on sale at Best B the video game?	uy for 15% off. The game you	want to buy is \$64. What is the sale price of
1 - How much is the discount? (W	e are looking for 15% of \$64).	
		ant of the discount is \$  ng on the question, this might be the answer.)
2 - Subtract the amount of the dis	count from the original price.	
		game will cost \$ after the discount.

4.) Bike:

Original Price: \$135

Discount: 15%

5.) Car:

Original Price: \$18,950

Discount: 20%

6.) **TV**:

Original Price: \$1249

Discount: 8%

## Tax:

An amount that is charged on almost everything you buy that is paid to the government. *Find the amount of tax, then add to the retail price.* 

Your bill at Barnes and Noble is \$62.45 before tax. If the sales tax is 6.75%, what is the total price?

Total = bill	+ amount of tax		
Total =	+(	) Must change percent to a decimal.	You can also break it down into two steps:
Total =	+(	)	i down in o two steps.
Total =	+	Round to the nearest cent.	1. Find the tax 2. Find the new
Total =			Ĺi

7.) Bill: \$78.90 Sales Tax: 7% 8.) Bill: \$22.30 Sales Tax: 6.5% 9.) Bill: \$190.54 Sales Tax: 6.75%

## Tipping:

Find tip amount, then add to bill.

Jackson takes his family out to dinner. The total bill comes to \$84.38. Jackson was happy with the service, so he gave a 20% tip to the server. How much did Jackson spend?

Find amount of tip	20% OF \$84.38	
		Tip =
		Total bill = cost of meal + tip
10.) Food Bill: \$54.80	11.) Food Bill: \$9.80	12) Food Bill: \$18
Tip: 15%	Tip: 18%	Tip: 20%
		be a method that helps you figure out a 20% tip in
your head? Explain your th	noughts, and explain <b>why</b> this works	. No calculators or cell phones allowed! :)
		· · · · · · · · · · · · · · · · · · ·

## Commission:

Most sales people earn an extra percentage of what they sell. (Realtors, car salesmen, furniture, even shoes!). Find the amount of the commission.

Will made a 3% commission on a house he sold. The house sold for \$225,000. How much commission did Will;earn?

Find amount of commission: 3% OF \$225,000

	Will's	s commission
13.) House price: \$309,500 commission: 6%	14.) furniture sales: \$3,750 commission: 8.5%	15.) car price: \$25,799 commission: 9%

## **Mixed Practice**

1. Nick was given an 18% tip waiting on a table of customers who ordered \$60.00 in food and drinks. How much did Nick earn in tips waiting on this table?

2. Maddie finds a sale on tires. She buys four tires that normally sell for \$48.00 each. If the tires are 20% off, how much will Maddie pay for the 4 tires?

3. It costs Rachel \$1.49 to make a glass of strawberry lemonade. She marks up her drink by 34%. How much does she charge for a glass of strawberry lemonade?

4. Emilee found a cute new pair of shoes she just has to have! They cost \$5 at Polaris Fashion Place. How much will Emilee have to pay for the shoes?	
5. Luke and Stephen split the 6% commission they made selling a house for them receive?	for \$320,500. How much did each of
6. **Double discount time!** CJ went shopping at Old Navy. They were have everything was 15% off! She decided to buy a pair of jeans that originally \$19.00, and a pair of flip flops for \$5.00. Because she has an Old Navy cred 10% off her discounted total. What was CJ's total for her new outfit? (Bef	y cost \$35.00, a shirt that cost dit card, she received an additional
7. A sports store is having a sale on in-line skates. You want to buy a pair \$135. The sales tax is 5.5%, and it will be applied to the sale price of the s skates?	
onaces.	SALEI 20% OFF every pair of in-line skotes