•		VEY				
	Name:	DUI	Date:	Class:		
Mark UP and Mark DOWN HW						
	brac buys 5% both	telets for 25% the bracelets find the sale discounts.	s price of the set low much money wi	r price. If Sasha ceive an additional of bracelets with Il Sasha save if she	\$44.00	
	$\frac{75}{100} = \frac{x}{4}$ $x = \frac{x}{4}$			$\frac{x}{33}$ $= \frac{4}{31.35}$ $= 65$ will be se	aned)	
2. A golf store purchases a set of clubs at a wholesale price of \$250. Mr. Edmond learned that the clubs were marked up \$200%. Is it possible to have a percent increase greater than 100%? What is the retail price of the clubs? Yes, Mis is possible.						
	mark Original	<u>300</u> 100	X = 250	X=750 Retail In Sto		
27	3. Is a	percent incre le as a markup 500 250	ease of a set of go rate of 200%? Ex X	of clubs from \$250 to coplain. Yes, this is the second because the second double the second price. (3	5-the same 500 15:	

4. You have a coupon for an additional 25% off the price of any sale
item at a store. The store has put a robotics kit on sale for 15%)
off the original price of \$40. What is the price of the robotics
kit after both discounts? (2) Additional 25900ff
015900ff
859 X = 34 75 X X = 100 X 34 X =
5. A sign says that the price marked on all music equipment is
30% off the original price. You buy an electric guitar for the sale price of \$315.
a. What is the original price? 315,70

b. How much money did you save off the original price of the guitar?

c. What percent of the original price is the sale price?

$$\frac{iS}{of} = \frac{90}{100} \Rightarrow \frac{sale}{original} = \frac{90}{100} \Rightarrow \frac{315}{450} \times \frac{x}{100}$$

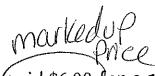
6. The cost of a New York Yankees baseball cap is \$24.00. The local sporting goods store sells it for \$30.00. Find the markup rate. marked up price

7. Write an equation to determine the selling price, p, on an item that is originally priced s dollars after a markdown of 15%.

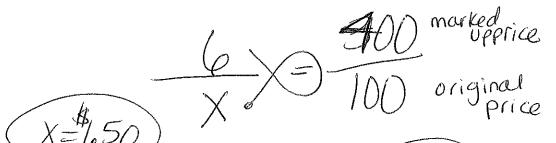
riced s dollars after a markdown of 15%.

$$S = Original \ price$$
 $S = O_0 | 5S = p$
 $P = Selling \ price$
 OR
 OR

0.85S=P



8. At the amusement park, Laura (paid \$6.00 for a small cotton candy. Her older brother works at the park, and he told her they mark up the cotton candy by 300%. Laura does not think that is mathematically possible. Is it possible, and if so, what is the price of the cotton candy before the markup?



9. A store advertises that customers can take 25% off the original price and then take an extra 10% off) Is this 35% off? Explain.

No, because the 25% is taken first off theoriginal price toget a new whole. Then, the extra 10% off is multiplied to the new whole. This is not the same as just adding the discounts together 10. An item that costs \$50 is marked 20% off. Sales tax for

the item is 8%.) What is the final price, including tax?

a. Solve the problem with the discount applied before the

Sales tax. 108 XX (X=43.20 $\frac{80}{100} = \frac{x}{50} \times \frac{$40}{$\text{sate}}$

b. Solve the problem with discount applied after the sales tax.

(2) Discount 20-1-0ff 1) 8 do Tax 2004×4 (x=43.20) $\frac{108}{100} = \frac{x}{50} \times \frac{$54}{100} \times \frac{54}{50} \times \frac{x}{50}$ 100 54 \times 100 Explain.

The final prices are both the same. This is because multiplication is communatithe.

11. The sale price for a bicycle is \$315 dollars. The original price was
first discounted by 50% and then discounted an additional 10%.
Find the original price of the bicycle.
50% Paid 90% Paid
(1) Working (2) 50% 350 = 0.51
50% Paid 90% Paid (2) 50% 350 ÷0.5: Backwards 315 ÷0.9 = 350
12. A ski shop has a markup rate of 50%. Find the selling price
of skis that cost the storeowner \$300.
150
$\frac{130}{100}$ $= \frac{130}{300}$ $= 4450$
100 300
13. A tennis supply store pays a wholesaler \$90 for a tennis
13. A tennis supply store pays a wholesaler \$90 for a tennis racquet and sells it for \$144. What is the markup rate?
markup price $144 = \times \times = 160\%$
markop price 1244 = \times x=160% wholesale 90 100 (markop)
14. A shoe store is selling a pair of shoes for \$60 that has been
discounted by 25%.) What was the original selling price?
discountprice 60, 75
X=#80
originalprice X° 100
15. A shoe store has a markup rate of 5% and is selling a pair
of shoes for \$133. Find the price the store paid for the shoes.
markup 175 (133 (+ 7)
original 100 % X
16. If 20% of the 70 faculty members at John F. Kennedy
Middle School are male, what is the number of male faculty
members?
TON X=14 mer)
100