Name:	Date: Block:
	ts STUDY GUIDE Percent of Error/Change, Simple Interest
Percent I	Proportion
$\frac{is}{s} = \frac{00}{1000}$ or	$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$
Percentage	tormula
1. What percent of 12 is 7?	3. 25 is 55% of what number?
2. Manuel found a wrecked Trans-Am that he could fix. He bought the car for 65% of the original price of \$7200. What did he pay for the car?	4. The Royals softball team played 75 games and won 55 of them. What percent of the games did they lose?
Steps: Tax, Tip a 1. Convert Percent to Decimal	nd Markup
2. <u>Multiply</u> Decimal and Original Price 3. <u>Add</u> to Original Price	
5. Your parents took your family out to dinner. Your parents wanted to give the waiter a 15% tip. If the total amount of the dinner was \$42.00, what is the total cost of the bill?	8. If the sales tax for the city of Los Angeles is 9.75%, how much tax would you pay for an item that costs \$200.00?
6. If you go out to eat with 3 friends and your meal was \$72.50, there is 6.75% sales tax and you should tip the waiter 15%. How much should each person pay?	 9. The Oates family went out to dinner. The price of the meal was \$33.95. The sales tax was 7.25% of the price of the meal. The tip was 15% of the meal and the sales tax. How much money did the Oates family pay for the meal, including tax and tip?
7. The cost price of a book is \$8. Find the selling price of the book if the store's markup is 36%.	10. A store sells school bags for \$17.10 each. At what price should the store sell each bag, if the price needs to be marked up by 30%?
Steps: Commiss 1. Convert Percent to <u>Decimal</u> 2. <u>Multiply</u> Decimal and Original Price	sion
11. A real estate agent receives a 3% commission for selling a house. Find the commission that the agent earned for selling a house for \$131,000.	12. The owner of the Carousel Art Gallery receives a commission of 20% on paintings that are sold on consignment. Find the commission on a painting that sold for \$22,500.

Name:		Date:	Block:		
Steps:	Discount	and Markdown			
 Convert Percent to <u>Decimal</u> <u>Multiply</u> Decimal and Orginal Pri <u>Subtract</u> from Original Price 	ce				
13. A football is selling for 35% off the original price. The original price was \$60. What is the sale price of the football?		15. □A □motorcycle□ that □regularly □sells □for□ \$1,450□ was □discounted □by □40%□ off.What is the sale price before tax?			
14. Timmy wants to buy a scooter and the price was \$50. When he goes to the store a second time, he found that price was marked down by 20%. What is the new price?		16. A supermarket has marked down all items at 35 percent. Jeremy wants to buy a digital camera that regularly sells for \$55 and iPad that regularly sells for \$280. Determine the total sale price.			
	Percent of Change	and Percent of Error			
<u>Difference</u> Original	_ =	<u>Difference</u> = % Actual 10	00		
17. In 1967, a 30-second Super Bowl commercial cost \$40,000. In 2000, a 30-second commercial cost \$1,800,000. What was the percent of change in the cost of a commercial?		20. Dennis wants to buy a card for his wife. Dennis calculates the amount of the card as \$4.50. The actual price of card is \$4. What is Dennis's percent error?			
18. Shannon had 765 cards in her baseball collection. She sold 153 of the cards to purchase a new iPod. What is the percent of change in the number of Shannon's baseball card collection?		21. Sabrina calculates the cost of a book as \$50. The actual price was \$56. What is Sabrina's percent error?			
19. Caroline, an employee of Hollister, bought a sweater originally priced at \$55 for \$38.50 after her employee discount. What percent off is the employee discount?		22. Joshua uses his thermometer and finds the boiling point of ethyl alcohol to be 75° C. He looks in a reference book and finds that the actual boiling point of ethyl alcohol is 80°C. What is his percent error?			
	Simple	 Interest			
$\mathbf{I} = \mathbf{P} \times \mathbf{R} \times \mathbf{T}$ Where:	23. Principal = \$	23. Principal = \$47,300, Rate = 3%, Time = 4 months. What will that total principal + interest payment be?			
 I = the Interest Money created in dol P = the "Principal" starting amount of R = the Interest Rate per year (in decin T = the Time the money is Invested, or Borrowed, in Years 	money 24. Richard depo	24. Richard deposited \$5,500 for 6 years on 2.40% interest rate in his saving account. How much simple interest will he earn?			
		25. Andrew borrows \$79,500 for 5 months on 6.30% interest rate in his saving account. Calculate the simple interest?			

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