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?	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?	<ul> <li>9. The Oates family went out to dinner.</li> <li>The price of the meal was \$33.95.</li> <li>The sales tax was 7.25% of the price of the meal.</li> <li>The tip was 15% of the meal and the sales tax.</li> <li>How much money did the Oates family pay for the meal, including tax and tip?</li> </ul>	
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				
<ol> <li>Convert Percent to <u>Decimal</u></li> <li><u>Multiply</u> Decimal and Orginal Pri</li> <li><u>Subtract</u> from Original Price</li> </ol>	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 an he goes to the store a second time, he marked down by 20%. What is the ne	e found that price was	Jeremy wants to buy a digital	ed down all items at 35 percent. camera that regularly sells for \$55 or \$280. Determine the total sale	
Percent of Change and Percent of Error				
<u>Difference</u> Original	_ =	<u>Difference</u> = % Actual 10	00	
17. In 1967, a 30-second Super Bow In 2000, a 30-second commercial cos the percent of change in the cost of a	t \$1,800,000. What was		rd for his wife. Dennis calculates .50. The actual price of card is \$4. or?	
18. Shannon had 765 cards in her base 153 of the cards to purchase a new iF change in the number of Shannon's b	od. What is the percent of	21. Sabrina calculates the co price was \$56. What is Sabrin	st of a book as \$50. The actual na'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?		ethyl alcohol to be 75° C. He	neter and finds the boiling point of looks in a reference book and bint of ethyl alcohol is 80°C. What	
	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?		
<ul> <li>I = the Interest Money created in dol</li> <li>P = the "Principal" starting amount of</li> <li>R = the Interest Rate per year (in decin</li> <li>T = the Time the money is Invested, or Borrowed, in Years</li> </ul>	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?		
		ws \$79,500 for 5 months on 6. the simple interest?	30% interest rate in his saving	

Name:	Da	ate:Block:
KEY		
1) 58%	13) \$39	25) \$2,086.88
21 \$4,680	14) \$40	
3) 45	15) \$870	
4) 27%	<b>16) \$217.75</b>	
5) \$48.30	<b>17) 4,400%</b>	
6) \$22.25	<b>18) 80%</b>	
7) \$10.88	<b>19</b> ) <b>30</b> %	
8) \$19.50	<b>20</b> ) <b>12.5</b> %	
9) \$41.87	<b>21</b> ) <b>10.7</b> %	
10) \$22.23	<b>22) 6.25</b> %	
11) \$3,930	23) \$47,773	

24) \$792

12) \$4,500