Name: Key	Date:	Core:
Math 7 Unit 7 Percent Applications Review		
Find the percent of change. State whethe the nearest tenth when necessary.	r each change is an in	ocrease or decrease. Round to
1. A \$75 coat is put on sale for \$40.		1.) 46.7% decrees
75-40 = 35 35 × × 75 × 350		2) 51. vierese.
2. Mary earns \$30,000 per year. After a rais $31,500-30,000 = 1500 = 1500$	e, she earns \$31,500 <u>Y</u> 30000 y = 150000 30000 30000	
3. Larry read 12 books last year. This year, he	e read 16 books.	3.) 33.3% uncruse
ル-12=4 社=満一社×=100 x=3		4) 15.7% werese
4. Last week, there were 212 customers. This there were 245 customers $245-212=33$ $\frac{33}{212}=\frac{\chi}{100}$ $\frac{212}{212}$		
5 Original price: \$225 Markup price: \$275		5) 22.2% increase
7 7 7	2000: 726,750 x = 12825000 = 855000	6.) 13 % Cucust
Find either the <u>sale price</u> after a discount or <u>retail price</u> after a markup. Round answers to		
7. Speakers: \$180 30% off 180 • 7 =	126 (sale price)	7.) \$126
8. Camcorder: \$350 33% markup 350 •	1.33= (retail price)	8.) \$415.50
9 Oven: \$535.99 20% off 535.99 8:	25.50 = \$428.79 (sale price)	9.) \$ 428.79
10. Artwork: \$250 25% off 250.75=	187.50 (sale price)	10.)
11. Chair: \$140 45% markup 140 . 1.45	= 203 (retail price)	11.) - 203
12. Sports Equipment: \$95.75 65% mark		12.) \$157.99

Solve the following word problems. Round to the nearest tenth or cent when necessary.

13. Nancy is getting a new sofa. The regular price is \$1299. It will be on sale for 30% off. What will the sale price of the sofa be?

14. The local grocery store has a 50% markup on gallons of milk. If the grocery store pays \$2.99 for each gallon, what will the retail price be?

15. Bob went out to buy a digital camera. The price was \$329. How much will Bob pay for the camera including the 7% sales tax?

16. Mark and his family went to the Outback Restaurant for dinner. The bill was \$56.42. How much will they pay in all including 7% tax and a 20% tip? (Tip on the amount including tax.)

17. Karla earns \$500 per week plus 5% of her sales in commission. Last week, Karla sold \$2500 worth of product. How much did she earn in all last week?

18. You spend a day out shopping at Southpoint and spend \$14 on a t-shirt, \$34 on a pair of pants, and \$18 on a new hat. If the store takes 15% off to honor your coupon and then adds a 7% sales tax, what would your final purpose price be?

19. Jim works at a store where he is paid a weekly salary of \$125 plus a $5\frac{1}{2}$ % commission on his total sales. One week Jim's sales totaled \$985. How much did Jim earn that week?

125 + 985(.055) = \$179.18

20. A waiter was serving a large table of people one evening at Chili's Restaurant. He was asked at the beginning of the evening to make a choice. He could either get a \$50 tip or get 25% of the total bill as a tip. The bill came to \$145.25.

a.) Which option would be the best for the waiter?

b.) How much more?