Name:_____ Date:_____ Core:_____

Math 7 Unit 7 Percent Applications Review

Find the percent of change. State whether each change is an increase or decrease. Round to the nearest tenth when necessary.

1. A $75 coat is put on sale for $40.   1.) _____

2. Mary earns $30,000 per year. After a raise, she earns $31,500   2.) _____

3. Larry read 12 books last year. This year, he read 16 books.   3.) _____

4. Last week, there were 212 customers. This week,   4.) _____
   there were 245 customers

5. Original price: $225   Markup price: $275   5.)_____

6. Population in 1990: 855,000 ; Population in 2000: 726,750   6.) _____

Find either the <u>sale price</u> *after a discount or* <u>retail price</u> *after a markup. Round answers to the nearest cent.*

7. Speakers: $180 30% off   (sale price) 7.)_____

8. Camcorder: $350 33% markup   (retail price)   8.)_____

9. Oven: $535.99 20% off   (sale price) 9.)_____

10. Artwork: $250 25% off   (sale price) 10.)_____

11. Chair: $140 45% markup   (retail price)   11.)_____

12. Sports Equipment: $95.75   65% markup   (retail price)   12.)_____

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?

13.)_____

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?

14.)_____

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?

15.)_____

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.)

16.)_____

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?

17.)_____

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?

18.)_____

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?

19.)_____

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?   20a.)_____

b.) How much more?   20b.)_____