

Review for Chapter 2 Test Answer Key

MY SCORE _____

Find each number.

1. 20% of 120 is what number? 1. 24 _____

2. 15 is 15% of what number? 2. 100 _____

3. 8 is what percent of 64? 3. 12.5% _____

4. Estimate 60% of 52. 4. $0.6 \times 50 = 30$

5. Estimate $\frac{2}{5}$ of 128. 5. 52

6. Estimate 215% of 18. 6. $2 \times 20 = 40$

For Exercises 7 and 8, write an equation for each problem. Then solve. Round to the nearest tenth.

7. 15 is what percent of 48? 7. $15 = n; 48; 31.$

8. 35% of what number is 42? 8. $42 = 0.35 \times W; W = 120$

9. Macy has completed 78% of the 50 questions on the test. How many questions has Macy completed? 9. 39 questions

10. Christina estimates that she will spend \$250 on new summer clothes. She actually spent \$350. What is the percent error? Round to the nearest whole percent. 10. 29% _____

11. Gregory predicts that 310 people will attend the spring play. There was an actual total of 220 people who attended the spring play. What is the percent error? Round to the nearest whole percent. 11. 41%

12. Emilio and Regina each sell popcorn at the basketball games. The table shows how much they charge for the popcorn including markup for supplies and the number of bags popcorn sold. Who made more profit? Explain. 12. _____

| | Cost of Popcorn | Markup | Number of Bags Sold |
|--------|-----------------|--------|---------------------|
| Emilio | \$1.25 | 8% | 30 |
| Regina | \$1.40 | 5% | 26 |

Emilio; $1.25 \times 0.08 = 0.10 + 1.25 = 1.35$

$1.35 \times 30 = 40.5$

$1.40 \times 0.05 = 0.07 + 1.4 = 1.47$

$1.47 \times 26 = 38.22$

Emilio made \$40.50; Regina made 38.22

Find each percent of change. Round to the nearest whole percent. State whether the percent of change is an increase or a decrease.

13. \$75 to \$25 13. 67% decrease

14. 7,500 to 8,200 14. 9% decrease

15. Kenzie bought a shirt for \$18. The next day she saw the shirt was selling for \$24.60. What is the percent of change? 15. 37% increase

16. Last year, Sandro bought a book for \$13.89. This year the same book cost \$15.79. What was the percent of change? 16. 14% increase

17. The regular price of a new washer and dryer is \$975 and the sale price is \$850. Find the percent of decrease to the nearest whole percent. 17. 13%

Find the total cost or sale price to the nearest cent.

18. \$6.95 lunch; 20% tip 18. \$8.34

19. \$30 bat; 15% discount 19. \$25.50

20. \$2,500 jet ski; 6.5% tax 20. \$2,662.50

21. \$12.95 dinner; 15% tip 21. \$14.89

Find the simple interest paid to the nearest cent for each principal, interest rate, and time.

22. \$1,400, 3.8%, 1 year 22. \$53.20

23. \$628, 5%, 4 months 23. \$10.47

24. \$85, 4.5%, 3 years 24. \$11.48

25. Mr. Fraser bought new shingles for his house for \$3,500 using a credit card. His card has an interest rate of 17%. If he does not pay off his balance at the end of the month and has no other charges, how much money will he owe on his credit card at the end of the month? 25. \$3,549.58