Test, Form 2A

Write the letter for the correct answer in the blank at the right of each question.

1. Which proportion can be used to find what number is 44% of 50?

   A. $\dfrac{44}{100} = \dfrac{x}{50}$ C. $\dfrac{44}{100} = \dfrac{50}{x}$

   B. $\dfrac{64}{100} = \dfrac{x}{50}$ D. $\dfrac{44}{x} = \dfrac{x}{50}$

   1. ____**A**____

2. 75 is 125% of what number?

   F. 1.6 G. 50 H. 60 J. 200

   2. ____**H**____

3. Thirty-six of 80 marbles are blue. What percent of the marbles are blue?

   A. 45% B. 22.2% C. 36% D. 48%

   3. ____**A**____

4. Of 80 fathers surveyed, 33 of them said they'd like their lawns mowed for Father's Day. What percent is 33 of 80?

   F. 2% G. 17% H. 41.25% J. 71.25%

   4. ____**H**____

5. Results from a survey show that that 36% of dog owners say their dog sleeps in a family member's bed. If 12,500 pet owners were polled, how many people made this claim?

   A. 347 B. 4167 C. 4500 D. 8000

   5. ____**C**____

6. Which equation can be used to find what percent 18 is of 125?

   F. $125 = 18p$ H. $(125 - 18) = 360p$

   G. $18 = 125p$ J. $18(125) = p$

   6. ____**G**____

7. Which is the best estimate for $\frac{1}{2}$% of 385?

   A. 2 B. 19 C. 20 D. 39

   7. ____**A**____

8. Which is the best estimate of a 15% tip on a restaurant bill of $88.90?

   F. $9.00 G. $13.50 H. $18.00 J. $26.67

   8. ____**G**____

9. Of the 125 country songs on Howard's MP3 player, 14 are recorded by a female. Fourteen is what percent of 125?

   A. 0.112% B. 8.9% C. 11.2% D. 89%

   9. ____**C**____

10. 28.5 is what percent of 20?

    F. 8.5% G. 48.5% H. 70.2% J. 142.5%

    10. ____**J**____

Test, Form 2A (continued)

11. If 80% of a number is $57\frac{3}{5}$, what is 15% of the number?

A. 8.6 **B.** 10.8 **C.** 48.7 **D.** 57.3

11. _____**B**_____

12. During peak season, a hotel room costs $135 per night. During the off-season, it costs $90 per night. Which describes the percent of change from peak season to off-season?

F. $33\frac{1}{3}$% decrease **H.** 50% increase

G. $33\frac{1}{3}$% increase **J.** 50% decrease

12. _____**F**_____

13. A coin dealer buys a coin for $850 and sells it for $1190. Find the percent of change.

A. −34% **B.** −20% **C.** 40% **D.** 340%

13. _____**C**_____

14. In two years, the value of a car changed from $14,000 to $11,200. What is the percent of change?

F. −25% **G.** −20% **H.** 10% **J.** 28%

14. _____**G**_____

15. Evan buys a suit marked $64.99. He receives a 20% discount. Which equation can be used to determine the sale price of the suit?

A. $s = 64.99(0.20)$ **C.** $s = 64.99(1.80)$

B. $s = 64.99(0.80)$ **D.** $s = 64.99(1.20)$

15. _____**B**_____

16. Mona invested $2840 in a savings account for 6 years. She earned $894.60 in simple interest. What was the annual interest rate?

F. 1.89% **G.** 3.15% **H.** 3.71% **J.** 5.25%

16. _____**J**_____

17. Juliana plans to borrow $3180 at 6.5% for 3.5 years. What amount of simple interest should she expect to pay?

A. $207 **B.** $621 **C.** $723 **D.** $790

17. _____**C**_____

18. What is the total amount in an account after 3 years if the interest is compounded annually on an amount of $3200 at 4.8%?

F. $3683.27 **G.** $3514.57 **H.** $3353.6 **J.** $153.60

18. _____**F**_____

19. A store makes a profit of $15 on a wallet after a markup of 60%. What is the selling price of the wallet? Show two methods for determining your answer.

19. **$40; See students' work.**

20. A bicycle originally priced at $225 was marked down 30%. After a week, the bicycle was marked down another 15% off the sale price. What is the percent of change from the original price to the final sale price?

20. **−40.5% or 40.5% decrease**