

Name _____

Date _____

**Unit Assessment****Ratio, Proportion, and Percent**

DIRECTIONS: Complete your work on a separate sheet. Write each answer in the space provided.

Directions for Problems 1–4: Express each fraction or decimal as a percent.

1. $\frac{3}{200}$ 2. $\frac{7}{8}$ 3. 3.07

4. Which percent is equivalent to 0.335? (Choose the correct answer.)

- A. 3.35% B. 33% C. 33.5% D.
- $3\frac{1}{3}\%$

Directions for Problem 5: Express the percent as a proper fraction in lowest terms and as a decimal.

5. 8%

6. Mario's salary increased from \$75 per week to \$93 per week. What is the percent of increase?

7. Mary Karp bought a car for \$8200. By the end of the year, the value of the car had decreased by \$2706. By what percent had the car decreased in value?

8. A salesman receives an 8% commission on shirt sales. If he earned \$11.38 in commissions, what was the total amount of his sales?

9. A van is discounted 28% off the original price. What is the sale price if the original price was \$16,400?

Directions for Problems 10–12: Solve each proportion.

10. $\frac{8}{n} = \frac{15}{60}$ 11. $\frac{18}{1.5} = \frac{x}{4.5}$

12. $\frac{30}{x} = \frac{10}{24}$ (Choose the correct answer.)

- A. 216 B. 720 C. 7.2 D. 72

Answers

1. 1.5%

2. 87.5%

3. 307%

4. C

5. $\frac{2}{25}, .08$

6. 24%

7. 33%

8. 142.25%

9. \$11,808

10. $n = 32$

11. $x = 54$

12. D



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Directions for Problems 13–14: Replace $\underline{\quad ? \quad}$ with $<$, $>$, or $=$ to make a true statement.

13. $5.3 \underline{\quad ? \quad} 53\%$

14. $\frac{3}{5} \underline{\quad ? \quad} 60\%$

Answers

13. $\underline{\quad > \quad}$

14. $\underline{\quad = \quad}$

15. If Marie deposits \$320 in a bank account at $5\frac{1}{4}\%$ per year, how much simple interest will she earn after 2 years?

Answer: Marie will earn \$33.60 in simple interest.

16. Victor opens a savings account with \$600. The account pays $5\frac{1}{2}\%$ interest, compounded quarterly. If he makes no other deposits or withdrawals, how much will Victor have in his account after 9 months?

Answer: Victor will earn \$625.09 after nine months.

17. Jack Stanford deposited \$280 in a Holiday Club savings account, which pays $6\frac{1}{2}\%$ interest, compounded semiannually. If Jack makes no additional deposits, how much will be in his account at the end of a year?

Answer: Jack will have \$298.50 in his account at the end of the year.

18. A scale drawing of a room uses the scale 1 in.: 20 ft. Find the actual length of the room if it measures $1\frac{1}{4}$ in. in the scale drawing.

Answer: 25 ft.

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19. A map uses the scale 1 cm: 20 km. If the distance between two cities is 170 km, what is the distance on the map?

Answer: The distance on the map will be 8.5 cm.

20. A $6\frac{1}{2}$ -ounce can of Sea View Tuna costs 91¢. Three 2-pound cans of Ocean Blue Tuna cost \$11.52. Based on unit price alone, which brand is the better buy?

Answer: Ocean Blue Tuna is \$.02 cheaper per ounce, so it is the better buy.

21. A train travels 120 mi in $1\frac{1}{3}$ h. How many miles will the train go in 6 h traveling at the same rate?

Answer: The train will go 540 miles.

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