

Name \_\_\_\_\_  
 Period \_\_\_\_\_ Date \_\_\_\_\_

Chapter 7.1, 7.2, 7.5,

Practice Test

Write the ratio in simplest form:

- 1. 48 : 6 1. \_\_\_\_\_
- 2. \_\_\_\_\_ 2. \_\_\_\_\_
- 3. 40 s : 2 min 3. \_\_\_\_\_
- 4. 3 kg : 45 g 4. \_\_\_\_\_

Solve:

- 5.  $\frac{17d}{25} = \frac{51}{125}$  5. \_\_\_\_\_
- 6.  $\frac{t-5}{5} = \frac{2t-7}{15}$  6. \_\_\_\_\_
- 7.  $\frac{8a-5}{5a-4} = \frac{13}{8}$  7. \_\_\_\_\_
- 8. 21 is 6% of what number? 8. \_\_\_\_\_
- 9. 80% of what number is 120? 9. \_\_\_\_\_
- 10. What percent of 350 is 42? 10. \_\_\_\_\_

Write a proportion to describe the following: the school store sells 6 pencils for \$0.99. At this rate, how much would 16 pencils cost? Solve your proportion.

- [A] \$1.65      [B] \$2.98      [C] \$2.64      [D] \$3.79

Which of the following proportions could be used to find the cost of 10 notebooks if 3 notebooks cost \$1.98?

- [A]  $\frac{3}{10} = \frac{n}{\$1.98}$       [B]  $\frac{10}{\$1.98} = \frac{n}{3}$       [C]  $\frac{n}{3} = \frac{10}{\$1.98}$       [D]  $\frac{3}{\$1.98} = \frac{10}{n}$

Write 46% as a reduced fraction.      [A]  $\frac{23}{50}$       [B]  $\frac{12}{25}$       [C]  $\frac{46}{100}$       [D]  $\frac{47}{100}$

Which of the following does not equal the fraction  $\frac{12}{20}$ ?

- [A] 0.6      [B]  $\frac{24}{40}$       [C] 0.24      [D] 60%

18. \_\_\_\_\_  
b) \_\_\_\_\_

24 is 30% of what number? [A] 7.2 [B] 80 [C] 125 [D] 0.8

Choose the equation you would use to answer the question: What percent of 175 is 35?

[A]  $35n = 175$  [B]  $n = \frac{175}{35}$  [C]  $175n = 35$  [D]  $175 + 35 = n$  [E]  $175(35) = n$

A department store purchases a suit for \$90. To sell the suit to customers, the price is increased by 29%. What is the new price of the suit?

[A] \$63.90 [B] \$26.10 [C] \$116.10 [D] \$153.90

22. A dozen pencils cost \$2.50. At this rate how much would 32 pencils cost? 22. \_\_\_\_\_

23. A coat \$140 went on sale for \$119. What was the percent discounted? 23. \_\_\_\_\_

24. How many questions were on a test if a student received 80% and got 20 correct? 24. \_\_\_\_\_

25. The perimeter of a rectangle is 68 ft. Find the dimensions of the rectangle if the ratio of the length to width is 9: 8. 25. \_\_\_\_\_

SKIP