

Practice Test

Vocabulary and Concepts

1. Define *equivalent ratios*.
2. Write a proportion that can be used to find 76% of 512.

Skills and Applications

Write each ratio as a fraction in simplest form.

3. 45 to 18
4. 24:88
5. 15 minutes to 2 hours

Find each unit rate. Round to the nearest hundredth if necessary.

6. 24 cards for \$4.80
7. 330 miles on 15 gallons of gasoline

Solve each proportion.

8. $\frac{2}{3} = \frac{x}{42}$
9. $\frac{t}{21} = \frac{15}{14}$
10. $\frac{9}{m} = \frac{12}{36}$

12. **SWIMMING** Alyssa swims 3 laps in 12 minutes. At this same rate, how many laps will she swim in 30 minutes?

Write each percent as a fraction in simplest form.

13. $56\frac{1}{4}\%$
14. $82\frac{1}{4}\%$
15. $83\frac{1}{3}\%$

Write each fraction as a percent. Round to the nearest hundredth if necessary.

16. $\frac{5}{8}$
17. $\frac{7}{15}$
18. $\frac{33}{40}$

19. Write 0.45% as a decimal and as a fraction in simplest form.

20. Write 8.25 as a percent.

Find each number. Round to the nearest tenth if necessary.

21. What is 18% of 30?
22. What number is 162.2% of 50?
23. What percent of 64 is 12.8?
24. 458 is 105% of what number?

Standardized Test Practice

25. **MULTIPLE CHOICE** The purchase price of a bicycle is \$140. The state tax rate is $6\frac{1}{2}\%$ of the purchase price. What is the tax rate expressed as a decimal?

(A) 6.5

(B) 0.65

(C) 0.065

(D) 0.0065