

ARE YOU READY?

Vocabulary

Match each term on the left with a definition on the right.

- | | |
|--------------------|---|
| 1. difference | A. the result of an addition |
| 2. factor | B. a whole number that is multiplied by another whole number to get a product |
| 3. natural numbers | C. numbers that can be expressed in the form $\frac{a}{b}$, where a and b are both integers and $b \neq 0$ |
| 4. ratio | D. the result of a subtraction |
| 5. sum | E. a comparison of two quantities by division |
| | F. the counting numbers: 1, 2, 3, ... |

Solve Proportions

Solve each proportion.

6. $\frac{3}{4} = \frac{x}{12}$

7. $\frac{15}{9} = \frac{3}{x}$

8. $\frac{10}{20} = \frac{x}{100}$

9. $\frac{250}{1500} = \frac{x}{100}$

Compare and Order Real Numbers

Compare. Write $<$, $>$, or $=$.

10. $20 \square 13$

11. $\frac{2}{3} \square \frac{1}{2}$

12. $\frac{3}{4} \square \frac{7}{9}$

13. $0.75 \square \frac{9}{12}$

Order the numbers from least to greatest.

14. $\frac{1}{2}, \frac{4}{5}, \frac{1}{8}, \frac{3}{4}, \frac{2}{3}$

15. $0.12, \frac{2}{5}, \frac{3}{4}, 0.3, \frac{1}{3}$

Multiply Decimals

Multiply.

16. 0.25×300

17. 0.5×4000

18. 0.05×200

19. 0.125×9600

Divide Decimals

Divide.

20. $435 \div 10$

21. $32 \div 100$

22. $777 \div 1000$

23. $295 \div 10,000$

Fractions, Decimals, and Percents

Write the equivalent decimal.

24. $\frac{3}{5}$

25. 45%

26. $\frac{3}{4}$

27. 8%

Write the equivalent percent.

28. $\frac{1}{4}$

29. 0.2

30. 0.36

31. $\frac{1}{10}$