

**Do you know HOW?**

- Write an algebraic expression for the phrase *the quotient of n and 6*.
- Write a word phrase for $-12t + 2$.
- Evaluate the expression $-(pq)^2 \div (-8)$ for $p = 2$ and $q = 4$.
- Dance** The table shows how the total cost of dance classes at a studio depends on the number of classes you take. Write a rule in words and as an algebraic expression to model the relationship.

Dance Classes

Number of Classes	Total Cost
1	$(1 \times 15) + 20$
2	$(2 \times 15) + 20$
3	$(3 \times 15) + 20$

Simplify each expression.

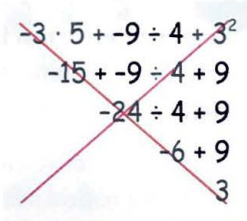
- $-20 - (-5) \cdot (-2^2)$
- $\left(-\frac{1}{4}\right)^3$
- $-\frac{7ab}{a}, a \neq 0$
- $-|-25|$
- $\sqrt{\frac{16}{25}}$
- Is each statement true or false? If false, give a counterexample.
 - For all real numbers a and b , $a \cdot b$ is equivalent to $b \cdot a$.
 - For all real numbers a and b , $a(b \cdot c) = ab \cdot ac$
- Is the ordered pair $(2, -5)$ a solution to the equation $4 + 3x = -2y$? Show your work.
- Order the numbers $-\frac{7}{8}, \frac{7}{4}, -1\frac{4}{5}$, and $-\frac{13}{16}$ from least to greatest.

- Soccer** There are t teams in a soccer league. Each team has 11 players. Make a table, write an equation, and draw a graph to describe the total number of players p in the league. How many players are on 17 teams?

Simplify each expression.

- $5x^2 - x^2$
- $12 \div \left(-\frac{3}{4}\right)$
- $-(-2 + 6t)$
- $-3[b - (-7)]$
- Name the subset(s) of the real numbers to which each number belongs.
 - -2.324
 - $\sqrt{46}$
- Identify each property.
 - $a(b + c) = ab + ac$
 - $(a + b) + c = a + (b + c)$

Do you UNDERSTAND?

- Is the set of positive integers the same as the set of nonnegative integers? Explain.
- 

© 21. Error Analysis Find and correct the error in the work shown at the right.
- Is the following statement true or false? If the product of three numbers is negative, then all the numbers are negative. If false, give a counterexample.
- © 23. Reasoning** You notice that $10^\circ\text{C} = 50^\circ\text{F}$, $20^\circ\text{C} = 68^\circ\text{F}$, and $30^\circ\text{C} = 86^\circ\text{F}$. Use inductive reasoning to predict the value in degrees Fahrenheit of 40°C .
- © 24. Reasoning** When is the absolute value of a difference equal to the difference of the absolute values? Explain.