

- 667.** What is the value of y when $x = 3$ and $y = 5 + 4x$?
- 6
 - 9
 - 12
 - 17
- 668.** What is the value of the expression $\frac{xy + yz}{xy}$ when $x = 1$, $y = 3$ and $z = 6$?
- 3
 - 7
 - 12
 - 21
- 669.** Which of the following is an example of the Associative Property of Multiplication?
- $a(b + c) = ab + ac$
 - $ab = ba$
 - $a(bc) = (ab)c$
 - $a \times 1 = a$
- 670.** What is the greatest common factor of the following monomials? $3x^2$, $12x$, $6x^3$
- 12
 - $3x$
 - $6x$
 - $3x^2$
- 671.** Which value of x will make this number sentence true? $x + 25 \leq 13$
- 13
 - 11
 - 12
 - 38
- 672.** $\frac{x}{4} + \frac{3x}{4} =$
- $\frac{1}{2}x$
 - $\frac{x^3}{4}$
 - 1
 - x

- 666.** c. One of the most vital steps in solving for an unknown in any algebra problem is to isolate the unknown on one side of the equation.
- 667.** d. Substitute 3 for x in the expression 5 plus $4x$ to determine that y equals 17.
- 668.** b. Substitute the values of each letter and simplify. The expression becomes $\frac{(1)(3) + (3)(6)}{(1)(3)}$ which simplifies to $\frac{3 + 18}{3}$ after performing multiplication. Add $3 + 18$ in the numerator to get $\frac{21}{3}$, which simplifies to 7.
- 669.** c. The Associative Property of Multiplication shows that even though the grouping of the numbers changes, the result is the same. Choice c changes the grouping of the numbers by placing different variables within the parentheses, while both sides of the equation remain equal.
- 670.** b. To find the greatest common factor of $3x^2$, $12x$, and $6x^3$ first start with the coefficients, or numbers in front of the variables. The largest number that divides into 3, 6, and 12 without a remainder is 3. With the variables, the smallest exponent on x is 1, so x^1 , or x , is the largest variable factor. Therefore, the greatest common factor of all three terms is $3x$.
- 671.** a. Since the solution to the problem $x + 25 = 13$ is -12 , choices **b**, **c**, and **d** are all too large to be correct.
- 672.** d. The first step in solving this problem is to add the fractions to get the sum of $\frac{4x}{4}$. This fraction reduces to x .