|  |
| --- |
| **base**(of a power): The factor being multiplied by itself. Base  **exponent**: The number of times a number or expression (called base) is used as a factor of repeated multiplication. Also called the power.  **evaluate**: To find the value of an expression by replacing each variable in an expression with numbers. |
| **sum**: The number you get by adding two or more numbers together.   * The sum of 5, 2, and 4 is 11 because 5 + 2 + 4 = 11. * The sum of *x* and *y* is *x* + *y* because *x* + *y* = *x* + *y*.   **difference**:The amount left after one number is subtracted from another number.  **term**: A number, a variable, or a product of numbers and variables.**e**5, m, 8*x*, 3*ab*, and -9*r*2s are all terms  **product**: A number that is the result of multiplication.  **factor**: When two or more integers are multiplied, each integer is a factor of the product. "To factor" means to write the number or term as a product of its factors.  **quotient**: A number that is the result of division.  **coefficient**: A number multiplied by a variable in an algebraic expression  **algebraic expression**: A mathematical phrase involving at least one variable and sometimes numbers and operation symbols.  **arithmetic expression**: An [expression](http://www.webopedia.com/TERM/E/expression.html) that represents a numeric value.  **substitute**: To replace one element of a mathematical equation or expression with another.  **evaluate**: To find the value of an expression by replacing each variable in an expression with numbers. |
| **evaluate an algebraic expression**: To find the value of an expression by replacing each variable in an expression with numbers.  **commutative properties**: Properties that denote an operation is independent of the order of combination.   * *Commutative property of addition: a + b = b + a* * *Commutative property of multiplication* ***:****a* × *b = b* × *a*   **associative properties**: Properties that denote an operation is independent of grouping.   * *Associative property of addition* (*a + b*) *+ c = a +* (*b + c*) * *Associative property of multiplication* (*a* × *b*) × *c = a* × (*b* × *c*)   **distributive property**: The sum of two addends multiplied by a number is the sum of the product of each addend and the number.   * *Distributive property of multiplication over addition a* × (*b* + *c*) *= a* × *b* + *a* × *c* |