

Chapter 6 Vocabulary

1. **Algebra**- A mathematical language of _____, including _____.
2. **Algebraic Expression**- An expression consisting of a combination of _____, _____, and at _____ one _____.
3. **Associative Property**- The _____ in which three _____ are _____ when they are added or multiplied does not change their _____ or _____.
For any numbers a , b , and c , $(a + b) + c = a + (b + c)$, and $(ab)c = a(bc)$.
Example: $(2 + 3) + 4 = 2 + (3 + 4)$ or $(2 \times 3) \times 5 = 2 \times (3 \times 5)$.
4. **Coefficient**- The _____ factor of a _____ that _____ a _____.
5. **Commutative Properties**- The _____ in which two _____ are _____ or _____ does not _____ their _____ or _____. For any numbers a and b , $a + b = b + a$ and $ab = ba$.
Example: $2 + 3 = 3 + 2$ or $2 \times 3 = 3 \times 2$
6. **Constant**- A term _____ a _____.
7. **Distributive Property**- To _____ a sum by a _____, multiply each _____ by the number _____ the _____.
For any numbers a , b , and c , $a(b + c) = ab + ac$ and $a(b - c) = ab - ac$.
Example: $2(5 + 3) = (2 \times 5) + (2 \times 3)$ and $2(5 - 3) = (2 \times 5) - (2 \times 3)$
8. **Equivalent Expressions**- _____ that have the same _____.
Examples: $3 + 2 = 10 - 5$, $2x + 3x = 5x$
9. **Evaluate**- Find the _____ of an _____ expression _____ replacing _____ with _____.
10. **Exponent**- In a _____, the _____ that tells _____ many _____ a number or expression is to be multiplied by itself.
Example: In the expression 5^3 , the exponent is 3 and is written $5^3 = 5 \times 5 \times 5 = 125$
11. **Identity Property**- The _____ of any number and _____ equals the _____ and that the product of any number and _____ equals the _____.
The product of a factor and one is the factor. Example: $5 + 0 = 5$ and $5 \times 1 = 5$
12. **Like Terms**- _____ that contain the same _____ raised to the same _____. Example: $5x^2$ and $6x^2$ are like terms.
13. **Numerical Expression**- A mathematical expression that has a _____ of _____ and at least one operation. $4 + 2 \times 3$ is a numerical expression.
14. **Perfect Square**- _____ with square _____ that are _____ numbers. Example: 25 is a *perfect square* since $25 = 5^2$
15. **Powers**- Numbers _____ using _____. Example: 7^4 is 7 raised to the fourth power, or $7 \times 7 \times 7 \times 7$. The number 3^2 is read three to the second power or three squared.
16. **Property**- A _____ that is _____ for any _____ or variables.
17. **Term** – Each _____ of an _____ expression _____ by a _____ sign or _____ sign.
18. **Variable**- A _____, usually a _____, used to _____ a _____.

