

Name: _____

Date: _____

Write the letter for each vocabulary term's corresponding definition or example.

- | | |
|--------------------------------------|--|
| 1. Variable _____ | A) the answer to a division problem |
| 2. Constant _____ | B) a number multiplied by a variable |
| 3. Coefficient _____ | C) to find the value of an expression |
| 4. Term _____ | D) the answer to an addition problem |
| 5. Sum _____ | E) the answer to a subtraction problem |
| 6. Difference _____ | F) a letter that represents a number |
| 7. Quotient _____ | G) $0 + w = w$ |
| 8. Product _____ | H) any math statement |
| 9. Expression _____ | I) a math statement with an equal sign |
| 10. Equation _____ | J) $2(4x) = (2 \cdot 4)x$ |
| 11. Algebraic Expression _____ | K) a value that does not change |
| 12. Numeric Expression _____ | L) $5 + 4 + 2 = 5 + 2 + 4$ |
| 13. Substitute _____ | M) a math statement with at least one variable |
| 14. Evaluate _____ | N) part of an expression being added or subtracted |
| 15. Commutative Prop. of Add. _____ | O) $1m = m$ |
| 16. Commutative Prop. of Mult. _____ | P) $3(4)(5) = 5(4)(3)$ |
| 17. Associative Prop of Add. _____ | Q) a math statement with only numbers |
| 18. Associative Prop of Mult. _____ | R) $6 + (8 + x) = (6 + 8) + x$ |
| 19. Identity Prop. of Add. _____ | S) to replace a variable with a number |
| 20. Identity Prop of Mult. _____ | T) the answer to a multiplication problem |

Name: _____

Date: _____

Evaluate each expression with the given values.

21. $6 + (-5x) - 8$ when $x = 3$

22. $x^3 + 4y - 2x$ when $x = 2$ and $y = \frac{3}{4}$

23. $2xy - \frac{x}{3}$ when $x = 6$ and $y = -1$

Translate each verbal phrase into an algebraic expression.

24) The sum of 5 and 3 times a number

25) The quotient of x and 3 increased by w

Name: Key

Date: _____

Write the letter for each vocabulary term's corresponding definition or example.

- | | | |
|--------------------------------|----------|--|
| 1. Variable | <u>F</u> | A) the answer to a division problem |
| 2. Constant | <u>K</u> | B) a number multiplied by a variable |
| 3. Coefficient | <u>B</u> | C) to find the value of an expression |
| 4. Term | <u>N</u> | D) the answer to an addition problem |
| 5. Sum | <u>D</u> | E) the answer to a subtraction problem |
| 6. Difference | <u>E</u> | F) a letter that represents a number |
| 7. Quotient | <u>A</u> | G) $0 + w = w$ |
| 8. Product | <u>T</u> | H) any math statement |
| 9. Expression | <u>H</u> | I) a math statement with an equal sign |
| 10. Equation | <u>I</u> | J) $2(4x) = (2 \cdot 4)x$ |
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| 17. Associative Prop of Add. | <u>R</u> | Q) a math statement with only numbers |
| 18. Associative Prop of Mult | <u>J</u> | R) $6 + (8 + x) = (6 + 8) + x$ |
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Name: Key

Date: _____

Evaluate each expression with the given values.

21. $6 + (-5x) - 8$ when $x = 3$

$$\begin{array}{r}
 6 + (-5 \cdot 3) - 8 \\
 \downarrow \\
 6 + -15 - 8 \\
 \downarrow \\
 -9 - 8
 \end{array}
 \quad
 \begin{array}{l}
 \text{LCC} \\
 -9 - 8 \\
 -9 + -8 = -17
 \end{array}$$

22. $x^3 + 4y - 2x$ when $x = 2$ and $y = \frac{3}{4}$

$$\begin{array}{r}
 2^3 + 4\left(\frac{3}{4}\right) - 2(2) \\
 \downarrow \\
 8 + \frac{12}{4} - 2(2) \\
 8 + 3 - 4
 \end{array}
 \quad
 \begin{array}{l}
 8 + 3 - 4 \\
 \downarrow \\
 11 - 4 = 7
 \end{array}$$

23. $2xy - \frac{x}{3}$ when $x = 6$ and $y = -1$

$$\begin{array}{r}
 2(6)(-1) - \frac{6}{3} \\
 \downarrow \\
 -12 - 2 \\
 \downarrow \\
 -12 + -2 = -14
 \end{array}$$

Translate each verbal phrase into an algebraic expression.

24) The sum of 5 and 3 times a number

$5 + 3n$

* any letter can be used

OR $3n + 5$

25) The quotient of x and 3 increased by w

$\frac{x}{3} + w$

$(x \div 3) + w$