

Evaluate.

- _____ 9. $47 + 2d$, for $d = 3$
 a. 138 b. 53 c. 139 d. 54

Evaluate the expression.

- _____ 10. $54 - 3(8 - 4)$
 a. 204 c. 26
 b. 42 d. 90
- _____ 11. $2 + 2(2)^2(5) + 8$
 a. 50 c. 88
 b. 106 d. 90
- _____ 12. Evaluate the following expression if $x = 12$, $y = 8$, and $z = 6$.

$$\frac{x^2y - 2z}{4}$$

 a. 1140 c. 285
 b. 21 d. 1296

I can solve open sentences(1-3)

- _____ 13. Find the solution of the equation if the replacement set is $b = \{35, 51, 81, 66, 63\}$.

$$\frac{b}{7} - 2 = 7$$

 a. 63 c. 81
 b. 35 d. 51

Find the solution set for the inequality using the given replacement set.

- _____ 14. $x - 2 < 11$; $\{11, 12, 13, 14, 15\}$
 a. $\{11, 12\}$ c. $\{11\}$
 b. $\{12\}$ d. $\{11, 12, 13\}$

I can identify the key properties of algebra: identity, inverse, transitive, substitution, commutative, and associative. (1-4, 1-6)

I can simplify expressions using the properties of algebra (1-4,1-6)

Name the property used in the equation. Then find the value of n.

- _____ 15. $11n = 11$
 a. Multiplicative Identity; 1 c. Additive Identity; 1
 b. Multiplicative Identity; 0 d. Multiplicative Inverse; 1
- _____ 16. $4(7n) = 4$
 a. Multiplicative Identity; $\frac{1}{7}$ c. Multiplicative Inverse; $\frac{1}{4}$
 b. Additive Inverse; $\frac{1}{4}$ d. Substitution; $\frac{1}{7}$

Name the property shown.

- _____ 17. $5 \cdot 7 = 7 \cdot 5$
 a. Identity Property of Multiplication
 b. Associative Property of Multiplication
 c. Commutative Property of Multiplication
 d. Identity Property of Addition
- _____ 18. $(8 \cdot 5) \cdot 11 = 8 \cdot (5 \cdot 11)$
 a. Commutative Property of Multiplication
 b. Commutative Property of Addition
 c. Identity Property of Multiplication
 d. Associative Property of Multiplication
- _____ 19. Use the Associative Property of Addition to find the total of 1, 10, and 18 in two different ways.
 a. $1 + 10 + 18 = 11 + 18 = 29$; $10 + 18 + 1 = 28 + 1 = 29$
 b. $1 + 10 + 18 = 11 + 18 = 29$; $18 + 10 + 1 = 28 + 1 = 29$
 c. $(1 + 10) + 18 = 11 + 18 = 29$; $1 + (10 + 18) = 1 + 28 = 29$
 d. $(1 + 10) + 18 = 11 + 18 = 29$; $(10 + 1) + 18 = 11 + 18 = 29$

I can simplify expressions using the distributive property (1-5)*Simplify the expression. If not possible, write simplified.*

- _____ 20. $2(11d - 5)$
 a. simplified
 b. $22d - 10$
 c. $22d - 10d$
 d. $22d - 5$
- _____ 21. $4(8n + 10d - 7d)$
 a. $32n + 68d$
 b. simplified
 c. $44nd$
 d. $32n + 12d$
- _____ 22. $5(b + 8)$
 a. $5b + 40$
 b. $5b + 8$
 c. $5b + 13$
 d. $8b + 40$
- _____ 23. $9(4m + 1)$
 a. $36m + 1$
 b. $36m + 9$
 c. $13m + 9$
 d. $45m$
- _____ 24. $5(2t - 5)$
 a. $10t - 5$
 b. $7t - 25$
 c. $10t - 25$
 d. $-15t$

I can combine like terms (1-5)**Simplify the expression.**

- _____ 25. $3x + 3x$
 a. $6x$
 b. $9x$
 c. $6x^2$
 d. 6
- _____ 26. $7d + 12 - 4d - 3$
 a. $19d - 7$
 b. $3d + 9$
 c. $3d^2 + 9$
 d. $12d$
- _____ 27. $2c + 2 + 5c$
 a. $9c$
 b. $9c^2$
 c. $7c + 2$
 d. $4c + 5$

Simplify the expression.

- _____ 28. $9x + 8(6x + 2)$
a. $57x + 10$ c. $57x + 16$
b. $57x + 2$ d. $15x + 10$

I can add polynomials (8-5) (not an intro topic)

Find the sum or difference.

- _____ 29. $(5a - 3a^2) + (8 + 7a)$
a. $a^2 + 12a + 8$ c. $3a^2 + 12a + 8$
b. $-3a^2 + 12a + 8$ d. $-3a^2 + 12a - 8$
- _____ 30. $(6a - 2b^2 - a) + (b - 3 + 9a^2)$
a. $7a^2 + 5a + b - 3$ c. $9a^2 - 2b^2 + 5a + b - 3$
b. $9a^2 - 2b^2 + 6a + b - 3$ d. $9a^2 - 2b^2 + 5a + b + 3$
- _____ 31. $(5a - 3a^2) - (-6a - 6)$
a. $3a^2 + 11a + 6$ c. $-3a^2 + 11a + 6$
b. $-3a^2 + 11a - 6$ d. $-3a^2 - 1a + 6$
- _____ 32. $(11p - 6q^2 - q) - (q^2 - 5p + 7p^2)$
a. $7p^2 - 7q^2 + 16p - q$ c. $-7p^2 - 5q^2 + 16p - q$
b. $-7p^2 - 7q^2 + 6p - q$ d. $-7p^2 - 7q^2 + 16p - q$