

CTJan27 Online Year 5 Algebra

1. $3(m + 4)$
 - a. $3m + 12$
 - b. $m^3 + 15$
 - c. $3 \cdot m + 12$
 - d. $12 + 3m$

2. $-2(n - 6)$
 - a. $-2n + 12$
 - b. $2n - 6$
 - c. $-2n - 12$
 - d. $n - 12$

3. $4t - 7t$
 - a. $12t$
 - b. 3
 - c. $3t$
 - d. $-3t$

4. Simplify the expression.
 $-3x + 8x + 2$
 - a. $11x + 2$
 - b. $5x + 2$
 - c. $-5x + 2$
 - d. $-3x$

5. Combine like terms.

$$3x - 2y + 4z - x + 5y + z$$

- a. Cannot be simplified
 - b. $2x + 3y + 5z$
 - c. $12x + 7y + 4z$
 - d. $2x - 3y + 5z$
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6. Simplify the following:
 $2y + 9 + 8y + 7$
 - a. 26
 - b. $10y + 16$
 - c. $26y$
 - d. $10y + 9 + 7$

7. Expand.

$$4(5x + 3)$$

- a. $20x + 7$
- b. $20x + 1$
- c. $20x - 1$
- d. $20x + 12$

8. Simplify the following expression:

$$x + x + x$$

- a. $3x$
- b. 4
- c. $4x$
- d. 3

9. Simplify the expression.

$$6m + 10 - 10m$$

- a. $4m + 10$
- b. $-4m + 10$
- c. $16m + 10$
- d. $6m$

10. Simplify. $-2(3x + 6)$

- a. $-6x - 12$
- b. $-6x + 12$
- c. $-18x$
- d. $6x - 12$

11. Evaluate the expression $4(X + 9)$ when $X = 2$.

- a. 23
- b. 45
- c. 24
- d. 44
- e. 21
- f. 43
- g. 19
- h. 130

12. Simplify the expression. $8 + 5m + 8p + 3m + p - 2$

- a. $8m + 9p$
- b. $8m + 9p + 6$
- c. $9m + 8p - 2$
- d. $9m + 8p + 10$

13. Evaluate the algebraic expression for the given value of $x = 5$.

$$8 + 6x$$

- a. 38
- b. 48
- c. -38
- d. -48

14. Evaluate the algebraic expression for the given values of $x = 3$ and $y = 4$.

$$8x - y$$

- a. 29
- b. 25
- c. 24
- d. 20

15. Evaluate algebraic expression $6x - y$ for the given values $x = 3$ and $y = 8$.

- a. 10
- b. 26
- c. 18
- d. 8

16. N stands for the number of stamps John had. He gave 12 stamps to his sister. Which expression tells how many stamps John has now?

- a. $N + 12$
- b. $N - 12$
- c. $12 - N$
- d. $12 \times N$

17. 3 times the quantity m minus 7

- a. $3(m - 7)$
- b. $3 \times m - 7$
- c. $3 - m$
- d. $3 \times m7$

18. two times a number plus 9

- a. $2+5n$
- b. $2n+9$
- c. $29+n$
- d. $9n+2$

19. Evaluate $12(x-t)$, if $x = 7$ and $t = 2$.

- a. 17
- b. 168
- c. 60
- d. 82

20. Simplify the following expression.

$$a + a + a + 5$$

- a. $a + a + a + 5$
- b. $3a + 5$
- c. $8a$
- d. $5a$

21. What is the value of the expression below when $t = 2$?

$$(7 + t) - (t + 4)$$

- a. 2
- b. 3
- c. 10
- d. 15

22. Write a verbal expression for the algebraic expression $4x + 8$.

- a. 4 more than 8 times a number x
- b. 8 less than 4 times a number x
- c. 8 more than 4 times a number x
- d. 4 less than 8 times a number x

23. Write an algebraic expression for "8 more than a number times 3."

- a. $8 > 3x$
- b. $3x - 8$
- c. $3x + 8$
- d. $8 - 3x$

24. Use the correct order of operations to evaluate the following expression for $a = 2$.

$$a + (6 \times 8) - (1 \times a)$$

- a. -60
- b. 46
- c. 48
- d. 62

25. Which of these is equivalent to $5(x - 8)$?

- a. $5x - 40$
- b. $5 - 8x$
- c. $x - 40$
- d. $40 - 5x$

26. Evaluate the expression if $g = 2$ and $h = -3$.

$$g^3 + h^2$$

- a. 30
- b. 17
- c. 45
- d. 25

27. Evaluate the expression.

$$\frac{6}{y + 3} \text{ when } y \text{ is } 9$$

- a. $\frac{1}{2}$
- b. 2
- c. $\frac{4}{11}$
- d. 3

28. Write an algebraic expression for the following verbal expression.

the sum of 150 and three times a number

- a. $3n + 150$
- b. $150n + 3$
- c. $3n - 150$
- d. $150n - 3$

29. Write an algebraic expression for the following verbal expression.

the sum of 200 and five times a number

- a. $5n + 200$
- b. $200n + 5$
- c. $5n - 200$
- d. $200n - 5$