

Evaluate the expression when $w = -2$, $x = 3$, $y = -5$, $z = 6$ and $p = 9$.

11. $y + 3.4$
12. $2p + 5.4$
13. $\frac{2.5w + 2.5}{0.5}$
14. $\frac{x^2}{p}$
15. $2.1z + p$

What is an algebraic expression for the word phrase?

- _____ 16. the sum of n and 9
a. $n - 9$ b. $n + 9$ c. $\frac{n}{9}$ d. $9n$
- _____ 17. the difference of r and 3
a. $\frac{r}{3}$ b. $r + 3$ c. $r - 3$ d. $3r$
- _____ 18. the product of g and 4
a. $4g$ b. $g + 4$ c. $\frac{g}{4}$ d. $g - 4$
- _____ 19. the quotient of j and 8
a. $\frac{j}{8}$ b. $8j$ c. $j - 8$ d. $j + 8$
- _____ 20. 3 times the sum of b and f
a. $3 + b + f$ b. $3bf$ c. $3(b + f)$ d. $3b + f$

What word phrase can you use to represent the algebraic expression?

- _____ 21. $3m$
a. three divided by a number m c. three times a number m
b. three minus a number m d. three plus a number m
- _____ 22. $5x + 2$
a. five times the sum of a number x and two c. a number x times the sum of five and two
b. two times the sum of a number x and five d. the sum of five times a number x and two

What is the simplified form of each expression?

23. $2(15 - 3)^2 \div 4$

24. $3(15 - 1)^2 \div 2$

25. $4(20 + 12) \div (4 - 3)$

26. $6(18 + 5) \div (6 - 3)$

27. $3^3 \cdot 32 + 12 \div 4$

Simplify each expression.

_____ 28. $\frac{4sg}{-5g}$

a. $-\frac{4}{5}s$

b. $\frac{4}{5}g$

c. $-\frac{5}{4}s$

d. $-\frac{5}{4}g$

_____ 29. $\frac{5xb}{-4b}$

a. $-\frac{5}{4}x$

b. $\frac{5}{4}b$

c. $-\frac{4}{5}b$

d. $-\frac{4}{5}x$

_____ 30. $(8 + 7a) + 4$

a. $12 + 11a$

b. $19a$

c. $8 + 11a$

d. $12 + 7a$

_____ 31. $(-5 + 2q) + 9$

a. $6q$

b. $4 + 11q$

c. $-5 + 11q$

d. $4 + 2q$

32. $-10(9n)$

33. $-9(9a)$

What is the solution of the equation?

_____ 34. $3 = b + 3$

a. 0

b. 1

c. 9

d. 6

_____ 35. $4 = q + 3$

a. 12

b. $\frac{4}{3}$

c. 7

d. 1

_____ 36. $w - 2 = -3$

a. $-\frac{3}{2}$

b. -5

c. -1

d. 6

_____ 37. $m - 1 = -3$

a. 3

b. -4

c. -2

d. -3

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_____ 38. $3.4 = 2p$

a. $\frac{1}{2}$

b. 3.4

c. 1.7

d. 0.3

_____ 39. $-7 = \frac{h}{5}$

a. $-\frac{7}{5}$

b. 35

c. 12

d. -35

_____ 40. $-4 = \frac{q}{4}$

a. 8

b. -16

c. 16

d. -1

_____ 41. $-9 = \frac{5}{17}n$

a. $-\frac{153}{5}$

b. $\frac{5}{153}$

c. $\frac{17}{45}$

d. $\frac{45}{17}$

What is the solution of the equation?

42. $16 = -d + 6$

43. $19 = -d + 15$

What is the solution of the equation?

44. $2 = 6p - 8 - 5p$

45. $3 = -9p - 6 + 10p$

46. $5d - d - 2d + 8 - 3d = 0$

What is the solution of the equation?

47. $4(y + 2) = 32$

48. $3(y - 5) + 2 = 5$

What is the solution of the equation?

49. $6x - 3 = 5x - 5$

50. $6 - t = 2t$