

Ready to Go On?



1-1 Variables and Expressions

Give two ways to write each algebraic expression in words.

1. $4 + n$
2. $m - 9$
3. $\frac{g}{2}$
4. $4z$
5. Grapes cost \$1.99 per pound. Write an expression for the cost of g pounds of grapes.
6. Today's temperature is 3 degrees warmer than yesterday's temperature t . Write an expression for today's temperature.

Evaluate each expression for $p = 5$ and $q = 1$.

7. qp
8. $p \div q$
9. $q + p$
10. Each member of the art club will make the same number of posters to advertise their club. They will make 150 posters total. Write an expression for how many posters each member will make if there are m members. Find how many posters each member will make if there are 5, 6, and 10 members.

1-2 Solving Equations by Adding or Subtracting

Solve each equation.

11. $x - 32 = -18$
12. $1.1 = m - 0.9$
13. $j + 4 = -17$
14. $\frac{9}{8} = g + \frac{1}{2}$

Solve each equation. Check your answer.

15. $b - 16 = 20$
16. $4 + x = 2$
17. $9 + a = -12$
18. $z - \frac{1}{4} = \frac{7}{8}$

19. When she first purchased it, Soledad's computer had 400 GB of hard drive space. After six months, there were only 313 GB available. Write and solve an equation to find the amount of hard drive space that Soledad used in the first six months.
20. Robin needs 108 signatures for her petition. So far, she has 27. Write and solve an equation to determine how many more signatures she needs.

1-3 Solving Equations by Multiplying or Dividing

Solve each equation.

21. $\frac{h}{3} = -12$
22. $-2.8 = \frac{w}{-3}$
23. $42 = 3c$
24. $-0.1b = 3.7$

Solve each equation. Check your answer.

25. $35 = 5x$
26. $-30 = \frac{n}{3}$
27. $5y = 0$
28. $-4.6r = 9.2$
29. A fund-raiser raised \$2400, which was $\frac{3}{5}$ of the goal. Write and solve an equation to find the amount of the goal.