

Practice 6-3

Solving Multi-Step Equations

Solve each equation. Check the solution.

1. $2(2.5b - 9) + 6b = -7$

3. $24 = -6(m + 1) + 18$

5. $4(1.5c + 6) - 2c = -9$

7. $2x - 3 + 4x = 39$

9. $20 = -4(f + 6) + 14$

2. $0.7w + 16 + 4w = 27.28$

4. $7k - 8 + 2(k + 12) = 52$

6. $0.5n + 17 + n = 20$

8. $3(3a + 3) + 6 = 81$

10. $9a - 4 + 3(a - 11) = 23$

11. You want to join the tennis team. You go to the sporting goods store with \$100. If the tennis racket you want costs \$80 and the tennis balls cost \$4 per can, how many cans of tennis balls can you buy?

12. Johnny wants to ship a package to his friend. A shipping company charges \$2.49 for the first pound and \$1.24 for each additional pound. If it cost Johnny \$11.17 to ship the package, how much did his package weigh?

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Puzzle 6-3

Solving Multi-Step Equations

Solve the following equations for each variable. Then fill in the letters in the puzzle below to discover the name of the author of *Moby Dick*, a book about a great white whale.

1. $(+25 + L) \cdot +126 \cdot +18 \cdot +32 \cdot +24 = 0$

$L = \underline{\hspace{2cm}}$

2. $(+36 + +5 + A) \cdot +1 = +5$

$A = \underline{\hspace{2cm}}$

3. $(+2 + +18) + E = +18$

$E = \underline{\hspace{2cm}}$

4. $+6(V + +29) = 0$

$V = \underline{\hspace{2cm}}$

5. $(-16 + M + +1) \cdot (+75 + -56) = +19$

$M = \underline{\hspace{2cm}}$

6. $(+2 \cdot +3 \cdot +6) \cdot (4 + R) = 0$

$R = \underline{\hspace{2cm}}$

7. $(+10 - N) \cdot (+14 + +8) = +22$

$N = \underline{\hspace{2cm}}$

8. $(+8 + I) \cdot (+6 - I) = +13$

$I = \underline{\hspace{2cm}}$

9. $+35 + (+90 + +5) + (H + -5) = +35$

$H = \underline{\hspace{2cm}}$

$\frac{-90}{-2} \quad \frac{-4}{+16} \quad \frac{-36}{+9} \quad \frac{+16}{-2} \quad \frac{-25}{-29} \quad \frac{+5}{-25} \quad \frac{-25}{-2}$

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