2-3 Standardized Test Prep

Solving Multi-Step Equations

Multiple Choice

For Exercises 1–5, choose the correct letter.

1. What is the solution of $-17 = -2n + 13 - 8n$?

   A. -3 **B.** $-\frac{2}{3}$ **C.** 3 **D.** 5

2. What is the solution of $-4(-3m - 2) = 32$?

   F. -2 **G.** 2 **H.** 4 **I.** 6

3. What is the solution of $\frac{x}{3} + \frac{3}{5} = -\frac{1}{15}$?

   A. -2 **B.** $\frac{8}{5}$ **C.** 2 **D.** $\frac{16}{3}$

4. When the sum of a number and 7 is multiplied by 4, the result is 16. What is the original number?

   F. -12 **G.** -3 **H.** 3 **I.** 11

5. A merchant is selling wind chimes from a booth at a flea market. He rents his space for $125 per day. The profit from each wind chime sold is $12. His goal is to make $3500 in a five day work week. Which equation represents how many chimes he needs to sell in a week to meet his goal?

   A. $12c - 625 = 3500$

   B. $5(12c) - 125 = 3500$

   C. $5(12c + 125) = 3500$

   D. $5(12c - 125) = 3500$

Short Response

6. Four friends are planning to play 18 holes of golf. Two of them need to rent clubs at $5 per set. Total cart rental is $10. The total cost of the golf outing, including green fees, is $92.

   a. Write an equation to represent the total cost of the golf outing.

   b. How much did the friends pay in green fees?