2-1 Standardized Test Prep

Solving One-Step Equations

Multiple Choice

For Exercises 1–6, choose the correct letter.

1. What is the solution of $-3 = x + 5$?

A. -15 **B.** -8 **C.** 2   **D.** 8

2. What operation should you use to solve $-6x = -24$?

F. addition   **G.** subtraction   **H.** multiplication   **I.** division

3. Which of the following solutions is true for $\frac{x}{3} = \frac{1}{4}$?

A. $-2\frac{3}{4}$ **B.** $\frac{1}{12}$ **C.** $\frac{3}{4}$ **D.** $3\frac{1}{4}$

4. There are 37 more cats c than dogs d in an animal shelter. If there are 78 cats at the shelter, which equation represents the relationship between the number of cats and dogs?

F. $d + 37 = 78$ **G.** $d - 37 = 78$ **H.** $c + 37 = 78$ **I.** $c - 37 = 78$

5. Which property of equality should you use to solve $6x = 48$?

A. Addition Property of Equality
B. Subtraction Property of Equality
C. Multiplication Property of Equality
D. Division Property of Equality

6. Shelly completed 10 problems of her homework in study hall. This is $\frac{2}{7}$ of the total assignment. How many problems does she have left to complete?

F. 20   **G.** 25   **H.** 30   **I.** 35

Short Response

7. A high school marching band has 55 male members. It is determined that five-eighths of the band members are male.
     a. What equation represents the total number of members in the band?
     b. How many members are in the band?