CHAPTER 12

565

LINEAR INEQUALITIES

More Questions for Practice

1. Solve each of the following inequations:

(a) $3(2x-3) - 7x > 10, x \in I$ (b) $(8x-4) - (6x+5) < 2, x \in N$

- **2.** Find the solution set of each of the following equations and inequations in the given domain and draw its graph:
 - (a) $3x + 2 = 8, x \in I$ (b) $2x < 15, x \in N$ (c) $3(2x 3) < 5, x \in N$
 - (d) $7x 4 < 2x + 16, x \in W$ (e) $-2 \le x \le 2, x \in I$
- **3.** Solve the following inequations, where *x* is any number:

(a)
$$x - 4 < 10$$
 (b) $5x - 1.8 < 5$ (c) $3x + 1 \le 7$

4. Graph the solution set of each of the following inequations:

(a)
$$x + 2 \ge 5, x \in W$$
 (b) $x + 3 < 3, x \in I$ (c) $\frac{1}{2} < x < 3\frac{1}{2}, x \in N$

5. Find the solution set of the linear inequation $\frac{x}{2} + 3 > 5$, $x \in \mathbb{N}$. Graph the solution on the number line.

