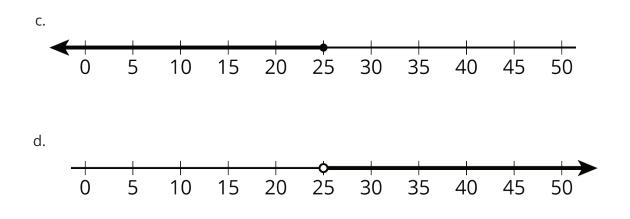


## **Lesson 20 Practice Problems**

- 1. Andre says that 10x + 6 and 5x + 11 are equivalent because they both equal 16 when x is 1. Do you agree with Andre? Explain your reasoning.
- 2. Select **all** expressions that can be subtracted from 9x to result in the expression 3x + 5.
  - A. -5 + 6xB. 5 - 6xC. 6x + 5D. 6x - 5
  - E. -6x + 5
- 3. Select **all** the statements that are true for any value of x.
  - A. 7x + (2x + 7) = 9x + 7B. 7x + (2x - 1) = 9x + 1C.  $\frac{1}{2}x + (3 - \frac{1}{2}x) = 3$ D. 5x - (8 - 6x) = -x - 8E. 0.4x - (0.2x + 8) = 0.2x - 8
  - $F. \ 6x (2x 4) = 4x + 4$



- 4. For each situation, would you describe it with x < 25, x > 25,  $x \le 25$ , or  $x \ge 25$ ?
  - a. The library is having a party for any student who read at least 25 books over the summer. Priya read *x* books and was invited to the party.
  - b. Kiran read *x* books over the summer but was not invited to the party.



(From Unit 6, Lesson 13.)

5. Consider the problem: A water bucket is being filled with water from a water faucet at a constant rate. When will the bucket be full? What information would you need to be able to solve the problem?

(From Unit 2, Lesson 9.)