

NAME _____

DATE _____

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Unit 6, Lesson 20: Combining Like Terms (Part 1)

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 $3x + 5$.

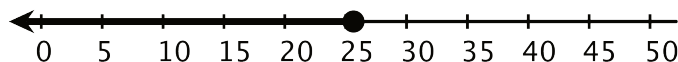
- A. $-5 + 6x$
- B. $5 - 6x$
- C. $6x + 5$
- D. $6x - 5$
- E. $-6x + 5$

3. Select **all** the statements that are true for any value of x .

- A. $7x + (2x + 7) = 9x + 7$
- B. $7x + (2x - 1) = 9x + 1$
- C. $3x + (10 - 3x) = 10$
- D. $5x - (8 - 6x) = -x - 8$
- E. $4x - (2x + 8) = 2x - 8$
- F. $6x - (2x - 4) = 4x + 4$

4. For each situation, would you describe it with $x < 25$, $x > 25$, $x \leq 25$, or $x \geq 25$?

- 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.
- c.

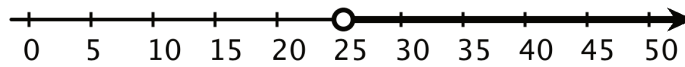


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d.



(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)