## Unit 6 Lesson 20 Cumulative 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 $3x+5$.
	1. $-5+6x$
	2. $5−6x$
	3. $6x+5$
	4. $6x−5$
	5. $-6x+5$
3. Select **all** the statements that are true for any value of $x$.
	1. $7x+(2x+7)=9x+7$
	2. $7x+(2x−1)=9x+1$
	3. $\frac{1}{2}x+(3−\frac{1}{2}x)=3$
	4. $5x−(8−6x)=-x−8$
	5. $0.4x−(0.2x+8)=0.2x−8$
	6. $6x−(2x−4)=4x+4$
4. For each situation, would you describe it with $x<25$, $x>25$, $x\leq 25$, or $x\geq 25$?
	1. 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.
	2. Kiran read $x$ books over the summer but was not invited to the party.
	3.
	* 
	1.
	* 
* (From Unit 6, Lesson 13.)
1. 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.)



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