## Unit 6 Lesson 21 Cumulative Practice Problems

* + Noah says that is equivalent to , because the subtraction sign tells us to subtract everything that comes after .
  + Elena says that is equivalent to , because the subtraction only applies to .
* Do you agree with either of them? Explain your reasoning.

1. Identify the error in generating an expression equivalent to . Then correct the error.
2. Select **all** expressions that are equivalent to .
3. The school marching band has a budget of up to $750 to cover 15 new uniforms and competition fees that total $300. How much can they spend for one uniform?
   1. Write an inequality to represent this situation.
   2. Solve the inequality and describe what it means in the situation.

* (From Unit 6, Lesson 14.)

1. Solve the inequality that represents each story. Then interpret what the solution means in the story.
   1. For every $9 that Elena earns, she gives dollars to charity. This happens 7 times this month. Elena wants to be sure she keeps at least $42 from this month’s earnings.
   2. Lin buys a candle that is 9 inches tall and burns down inches per minute. She wants to let the candle burn for 7 minutes until it is less than 6 inches tall.

* (From Unit 6, Lesson 16.)

1. A certain shade of blue paint is made by mixing quarts of blue paint with 5 quarts of white paint. If you need a total of 16.25 gallons of this shade of blue paint, how much of each color should you mix?

* (From Unit 4, Lesson 3.)



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