CONSTRUCTED-RESPONSE ITEM

MGSE7.EE.2

5. The expression 14,000 – 700x represents the number of gallons in a swimming pool x hours after draining of the pool began. When the expression is equal to 0, the pool is empty.

The expression can also be written as 700(20 – x). Explain what the two terms, 700 and (20 – x), mean in the context of the volume of water in the pool. **Write your answer in the space provided on your answer document.**

Scoring Guide

#5 Item Information

Standard: MGSE7.EE.2 Understand that rewriting an expression in different forms in a problem context can clarify the problem and how the quantities in it are related. For example $a + 0.05a = 1.05a$ means that adding a 5% tax to a total is the same as multiplying the total by 1.05.	**Item Depth of Knowledge:** 2 Basic Application of Skill/Concept Student uses information, conceptual knowledge, and procedures.

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CONSTRUCTED-RESPONSE ITEM

MCC7.EE.3

6. Kara has $500 in her savings account. She is going to save $75 per month and put it into her account.

Part A: How much money will be in Kara's account after 6 months? Show work or explain how you found your answer. **Type your answer in the space provided.**

Paula has $0 in her savings account. She is going to save $150 per month and put it into her account.

Part B: Write an equation to represent the amount of money, y, in Paula's savings account after x months. **Type your answer in the space provided.**

Part C: Who will have more money in her account after 6 months? Explain how you found your answer. **Type your answer in the space provided.**

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