Algebra 1: 1AL3.4 Mixture Problems
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MULTIPLE CHOICE

1. A chemist has two solutions of sodium hydroxide in water. The first is 45% sodium hydroxide and the second solution is 95%. How much of the ***first*** solution must the chemist mix to get 30 *liters* of a 60% solution?

   a. 21 liters
   b. 9 liters
   c. 56 liters
   d. 24 liters

   ANS: A

	Feedback
A	Correct!
B	This how much is required of the ***second*** solution!
C	You forgot to multiply 60% by the total (30 liters).
D	Incorrect!

   PTS: 1

2. A chemist has two solutions of sodium hydroxide in water. The first solution is 95% sodium hydroxide and there is 10 liters. One night, the chemist's mad assistant combines the two solutions together. The chemist measures and finds that there is now 30 liters of a 35% solution? What was the concentration (in **percent**) of sodium hydroxide in the second solution?

   a. 5
   b. 8
   c. 50
   d. 20

   ANS: A

	Feedback
A	Correct!
B	Incorrect!
C	You are mixing the ***first*** and ***end*** solution.
D	This how many ***liters*** of the second solution! You need the concentration (%).

   PTS: 1