Name : _____   **Score :** _____

Teacher : _____   **Date :** _____

Mixture Word Problems

1) Dan mixed 11 oz of soil containing 9 % clay with 12 oz of soil with 15 % clay. What is the clay content in the mixture?   _____

2) Keith dumped 7 lbs of a bag of apples with 36 % red apples, into a bag of 9 lbs which contained 32 % red apples. What is the new percent of red apples?   _____

3) A 7 L solution that was 16 % vinegar was mixed with a 13 L solution that was 79 % vinegar. Find the new concentration of vinegar.   _____

4) Melanie's trail mix was made combining 3 lbs of peanuts that cost 3 $/lb, 14 lbs of raisins at 6 $/lb, and 4 lbs of cashews at 5 $/lb. What was the cost per lb of the mixture?   _____

5) Benny mixed 4 L of cranberry juice into 12 L of apple juice, that had 44 % sugar. If the cranapple mixture was 48 % sugar, what was the percent of sugar in the cranberry juice?   _____

6) How many g of gold should a coin of 34 % gold be if when combined with a 13 g pure gold necklace, it forms a metal that is 79 % gold?   _____

7) Alyssa mixed 12 mL of a salt solution with 9 mL of a 39 % salt solution, to make a 56 % salt solution. Find the percent salt concentration of the first solution.   _____

8) Jessica mixed 10 mL of a acidic solution with 3 mL of a 47 % acidic solution, to make a 42 % acidic solution. Find the percent acid concentration of the first solution.   _____

9) Sam needs 5 lb of metal with 52 % silver. If Sam combines one metal with 12 % silver, and another with 74 % silver, how much of each metal does Sam need?   _____

10) Tim has two bags of nuts; one with 63 % peanuts, and the other with 25 % peanuts. To make a 11 lb bag of 56 % peanuts, how much of each should Tim use?   _____