

Name : _____

Score : _____

Teacher : _____

Date : _____

Mixture Word Problems

- 1) Sandy mixed 8 mL of a acidic solution with 10 mL of a 48 % acidic solution, to make a 56 % acidic solution. Find the percent acid concentration of the first solution. _____
- 2) Tim mixed 3 oz of soil containing 24 % clay with 5 oz of soil with 18 % clay. What is the clay content in the mixture? _____
- 3) Mary mixed 5 L of cranberry juice into 9 L of apple juice, that had 36 % sugar. If the cranapple mixture was 50 % sugar, what was the percent of sugar in the cranberry juice? _____
- 4) A 4 L solution that was 28 % vinegar was mixed with a 10 L solution that was 70 % vinegar. Find the new concentration of vinegar. _____
- 5) How many g of gold should a coin of 39 % gold be if when combined with a 3 g pure gold necklace, it forms a metal that is 78 % gold? _____
- 6) Sally has two bags of nuts; one with 63 % peanuts, and the other with 22 % peanuts. To make a 12 lb bag of 39 % peanuts, how much of each should Sally use? _____
- 7) Sara dumped 5 lbs of a bag of apples with 32 % red apples, into a bag of 3 lbs which contained 35 % red apples. What is the new percent of red apples? _____
- 8) Jason needs 9 lb of metal with 50 % silver. If Jason combines one metal with 25 % silver, and another with 70 % silver, how much of each metal does Jason need? _____
- 9) Alyssa mixed 13 mL of a salt solution with 8 mL of a 39 % salt solution, to make a 49 % salt solution. Find the percent salt concentration of the first solution. _____
- 10) Joan's trail mix was made combining 10 lbs of peanuts that cost 6 \$/lb, 11 lbs of raisins at 4 \$/lb, and 8 lbs of cashews at 5 \$/lb. What was the cost per lb of the mixture? _____



Name : _____

Score : _____

Teacher : _____

Date : _____

Mixture Word Problems

- 1) Sandy mixed 8 mL of a acidic solution with 10 mL of a 48 % acidic solution, to make a 56 % acidic solution. Find the percent acid concentration of the first solution. 66.00 %
- 2) Tim mixed 3 oz of soil containing 24 % clay with 5 oz of soil with 18 % clay. What is the clay content in the mixture? 20.25 %
- 3) Mary mixed 5 L of cranberry juice into 9 L of apple juice, that had 36 % sugar. If the cranapple mixture was 50 % sugar, what was the percent of sugar in the cranberry juice? 75.20 %
- 4) A 4 L solution that was 28 % vinegar was mixed with a 10 L solution that was 70 % vinegar. Find the new concentration of vinegar. 58.00 %
- 5) How many g of gold should a coin of 39 % gold be if when combined with a 3 g pure gold necklace, it forms a metal that is 78 % gold? 1.69 g
- 6) Sally has two bags of nuts; one with 63 % peanuts, and the other with 22 % peanuts. To make a 12 lb bag of 39 % peanuts, how much of each should Sally use? 4.98 lb of 63 %
7.02 lb of 22 %
- 7) Sara dumped 5 lbs of a bag of apples with 32 % red apples, into a bag of 3 lbs which contained 35 % red apples. What is the new percent of red apples? 33.12 %
- 8) Jason needs 9 lb of metal with 50 % silver. If Jason combines one metal with 25 % silver, and another with 70 % silver, how much of each metal does Jason need? 5.00 lb of 70 %
4.00 lb of 25 %
- 9) Alyssa mixed 13 mL of a salt solution with 8 mL of a 39 % salt solution, to make a 49 % salt solution. Find the percent salt concentration of the first solution. 55.15 %
- 10) Joan's trail mix was made combining 10 lbs of peanuts that cost 6 \$/lb, 11 lbs of raisins at 4 \$/lb, and 8 lbs of cashews at 5 \$/lb. What was the cost per lb of the mixture? 4.97 \$/lb

