**Guided Learning Activity (GLA)**

**College of the Canyons**

**Mixture Word Problems**

**Welcome to the Mixture Word Problems guided learning activity.**

**Student Learning Outcome: *By the end of this activity, students will to set up and solve various kinds of mixture word problems.***

**Directions:**

**1. Log into the computer and click on the following link in order to  
 access the GLA material:** [**Mixture GLA**](http://oer.canyons.edu/canyons/items/63e7d13b-2d8f-b5d7-691c-4b491f984fd4/1/?tempwn.b=access%2Fitem.do%3F.group%3Dmyitems%26.filterName%3D38%26pg.e%3Dtrue%26pg_pp%3D10%26pg_pg%3D1%26sort_s%3DDATEMODIFIED%26she_canDisplay%3Dchecked)

**2. Click on the link that says “mixture\_problems\_gla” in order to   
 open the Powerpoint presentation. Read and work through   
 slides #1-27. Pay particular attention to the formulas and how  
 the example problems are set up by using a table.**

**3. On a separate piece of paper, work through the two practice   
 problems given in slide #29. Make sure to use a table to set   
 up the problems. Ask a tutor to help you if you get stuck.**

**4. Check your answers on slide #30. If you did not get both   
 practice problems correct, go on to slides #31-34 and determine   
 where you went wrong. Next to each practice problem on your   
 scratch paper, write down in complete sentences what you did  
 wrong and what steps you can take so that you will not make the  
 same mistake again in the future.**

**5. Let’s see how much you have learned. Solve the following three   
 Mixture problems. Have a tutor check your work. The answers   
 are given below.**

**Quiz**

**1. How many pounds of dried fruit costing $1.50 per pound should   
 be mixed with 12 pounds of granola that costs $2.00 per pound in   
 order to make a mixture that costs $1.80 per pound?**

**2. A chemist needs to mix some 3% acid solution with some 11%   
 acid solution in order to make a total of 50 mL of 6% acid  
 solution. How much 3% solution and 10% solution should she   
 mix?**

**3. How much pure water must be mixed with 20 Liters of 10%  
 alcohol solution in order to make a mixture that is 4% alcohol?   
 (Hint: pure water has 0% alcohol.)**

Answers: 1) 8 pounds 2) 31 ¼ mL of 3% & 18 ¾ mL of 11%  
 3) 30 Liters of water