**Guided Learning Activity (GLA)**

**College of the Canyons**

**Percent Word Problems**

**Welcome to the Simple Interest Guided Learning Activity at College of the Canyons. This is a computer assisted tutorial on discount, mark up, and sales tax word problems.**

**Student Learning Outcome: *The student will gain experience in how to set up and solve various kinds of percent problems including discount, mark up, and sales tax.***

**Directions:**

**1. Log into the computer and click on the following link in order to  
 access the GLA material:** [**Percent Problems GLA**](http://oer.canyons.edu/canyons/items/df6b8812-a162-211c-cd61-2d6cc4464d32/1/?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 word “Percent Word Problems Powerpoint   
 Tutorial” to access the Powerpoint presentation. Read through   
 slides #1-11. Pay particular attention to the discount formula   
 and how the example problems are set up.**

**3. On a separate piece of paper. Work through the two practice   
 problems given in slide #12. Make sure to use the formula to set   
 up the problems. Ask a tutor to help you if you get stuck.**

**4. Check your answers on slide #13. If you did not get both   
 practice problems correct, go on to slides #14-15 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. Now read through slides #16-23. Pay particular attention to the  
 mark up formula and how the example problems are set up.**

**6. On a separate piece of paper. Work through the two practice   
 problems given in slide #24. Make sure to use the formula to set   
 up the problems. Ask a tutor to help you if you get stuck.**

**7. Check your answers on slide #25. If you did not get both   
 practice problems correct, go on to slides #26-27 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.**

**8. Now read through slides #28-33. Pay particular attention to the  
 sales tax formula and how the example problems are set up.**

**9. On a separate piece of paper. Work through the practice   
 problem given in slide #34. Make sure to use the formula to set   
 up the problem. Ask a tutor to help you if you get stuck.**

**10. Check your answer on slide #35. If you did not get the   
 practice problem correct, go on to slides #36 and determine   
 where you went wrong. Next to the 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.**

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

**Quiz**

1. Jim bought a new cell phone on sale for $89. If the phone was on sale for   
 20% off, what was the original price of the phone before the sale?

2. Ana bought a dress that regularly sells for $240 on sale for $180. What   
 was the discount rate? Write your answer as a percent.

3. Mitch works for a store that marks up all of its items 30%. If the selling   
 price of an item was $52, what was the original cost of the item before   
 the mark up?

4. Lucy wants to buy a hat for $24.50. If she lives in a city that has an 8%   
 tax rate, what will be the total price of the hat including tax?

5. Including an 8.5% sales tax, Rick paid $13.02 for a pair of swimming   
 goggles. What was the price of the goggles before tax?

Answers: 1) $111.25 2) 25% 3) $40 4) $26.46 5) $12