**Guided Learning Activity (GLA)**

**College of the Canyons**

**Geometry Problems**

**Welcome to the Geometry Guided Learning Activity at College of the Canyons. This is a computer assisted tutorial on geometry problems.**

**Student Learning Outcome: *The student will gain experience in how to set up and solve various kinds of geometry problems.***

**Directions:**

**1. Log into the computer and click on the following link in order to  
 access the GLA material:** [**Geometry GLA**](http://oer.canyons.edu/canyons/items/769f6b99-7928-d485-09d3-77dc56de39f5/1/?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)

**Now click on “geometry\_powerpoint\_tutorial” to open the PowerPoint.**

**2. Read through the PowerPoint slides #1-7. Pay particular  
 attention to the definitions and the diagrams and how the   
 example problems are set up.**

**3. On a separate piece of paper, work through the two practice   
 problems given on slide #8. Ask a tutor to help you if you get   
 stuck.**

**4. Check your answers on slide #9. If you did not get both   
 practice problems correct, next to each mistake 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 the PowerPoint slides #10-15. Again, pay  
 particular attention to the definitions, diagrams and how the  
 example problems are set up.**

**6. On a separate piece of paper, work through the two practice   
 problems given on slide #16. Ask a tutor to help you if you get   
 stuck.**

**7. Check your answers on slide #17. If you did not get both   
 practice problems correct, next to each mistake 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. Read through the PowerPoint slides #18-20. Pay particular  
 attention to the formulas and how the example problems are set  
 up.**

**9. On a separate piece of paper, work through the practice   
 problem given on slide #21. Ask a tutor to help you if you get   
 stuck.**

**10. Check your answer on slide #22. If you did not get the   
 practice problem correct, next to each mistake 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. Read through the PowerPoint slides #23-25. Pay particular  
 attention to the formulas and how the example problems are set  
 up.**

**12. On a separate piece of paper, work through the practice   
 problem given on slide #26. Ask a tutor to help you if you get   
 stuck.**

**13. Check your answer on slide #27. If you did not get the   
 practice problem correct, next to each mistake 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.**

**14. Read through the PowerPoint slides #28-30. Pay particular  
 attention to the formulas and how the example problems are set  
 up.**

**15. On a separate piece of paper, work through the practice   
 problem given on slide #31. Ask a tutor to help you if you get   
 stuck.**

**16. Check your answer on slide #32. If you did not get the   
 practice problem correct, next to each mistake 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.**

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

**Quiz**

**1. An angle is equal to 20 degrees more than four times its  
 complement. Find the measure of the angle and the measure of  
 the complement.**

**2. A triangle with two equal angles is called isosceles. Find all of the  
 angles of an isosceles triangle if the third angle is 30 degrees more   
 than the measure of one of the equal angles.**

**3. The length of a rectangle is 14 mm longer than five times the   
 width. Find the length and width of the rectangle if the  
 perimeter is 148 mm.**

**4. The area of a trapezoid is 75 square inches. If the height is 10   
 inches and one of the bases is 3 inches. Find the length of the   
 other base.**

*Answers: 1) 76°, 14° 2) 50°, 50°, 80° 3) 10mm, 64 mm 4) 12 in*