2015

MAT 95: Problem Solving Process and Strategies

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Designing Information Assignments for Literacy

**Professor’s Name:** Salvatore Sommella  
**Course Name/Section:** Mat 95/ Problem Solving: Process and Strategies  
**Activity Duration:** Unknown  
**Activity Learning Objectives:**
- Introduce the Concepts/Benefits of the Problem Solving Process.  
- Demonstrate to students various strategies available to solve problems.

**Activity Description:**
Be able to understand and apply the four (4) steps of Problem Solving. 
Be able to apply a problem solving strategy – Do hands-on problems.

**Vocabulary/Keyword(s)**
a. Exercise  
b. Problem Solving  
c. Problem Solving Strategy  
d. Picture-or-diagram  
e. Pattern

**Materials and Resources:**
Provide your instructions, handouts, and links to any other materials students use to do the activity.  
j. [www.youtube.com/watch?v=Xa8d9p_2Fkc](www.youtube.com/watch?v=Xa8d9p_2Fkc) – YouTube video – Problem Solving.  
k. [www.youtube.com/watch?v=fGQ7AR0ykKk](www.youtube.com/watch?v=fGQ7AR0ykKk) – Problem Solving.
Activity G: Problem Solving Worksheet.

Name: ______________________ Class: __________ Date: ______________

Answer all questions in complete coherent sentences.

1. Name the four steps in problem solving?

2. Explain the difference between a problem and an exercise.

3. When would you change your point of view?

4. How would you determine the reasonableness of a problem?

I: Problem Solving Strategy – Draw a picture or diagram worksheet for students.

Name: ______________________ Class: __________ Date: ______________

Directions: Draw a picture or diagram to help you solve each problem. Show all work.

| The eight teams in a tournament compete in a single-elimination (out after 1 loss). How many tournament games will the winner of the tournament have to play? | How many tournament games will the winner of the tournament have to play if there are 16 teams in single elimination? |
| The lengths of 3 rods are 6cm, 9cm, and 11cm. How can you use these rods to measure a length of 14cm? | The lengths of 3 rods are 6cm, 9cm, and 11cm. How can you use these rods to measure a length of 14cm? |

Notes: