

2015

# MAT 95: Problem Solving Process and Strategies

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## Recommended Citation

Sommella, Salvatore, "MAT 95: Problem Solving Process and Strategies" (2015). *CUNY Academic Works*.  
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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.

- f. Dial\_probSolvPro.ppt [Powerpoint Presentation (97-2003)] – Problems Solving Process.
- g. DialProbSolv.doc\_worksheet [Word (97-2003)] Problem Solving Worksheet for students.
- h. Dial\_stratDiagram.ppt - [Powerpoint Presentation (97-2003)] – Problem Solving Strategy – Draw a picture or diagram.
- i. DialAssign.doc – [Word (97-2003)] Problem Solving Strategy – draw a picture or diagram worksheet for students.
- j. [www.youtube.com/watch?v=Xa8d9p\\_2Fkc](http://www.youtube.com/watch?v=Xa8d9p_2Fkc) – YouTube video – Problem Solving.
- k. [www.youtube.com/watch?v=fGO7AR0ykKk](http://www.youtube.com/watch?v=fGO7AR0ykKk) – Problem Solving.

## Designing Information Assignments for Literacy

### 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.

<b>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?</b>	<b>How many tournament games will the winner of the tournament have to play if there are 16 teams in single elimination?</b>
<b>3 containers have capacities of 3, 5, and 9 liters. How can you use these containers to measure exactly 7 liters of water?</b>	<b>The lengths of 3 rods are 6cm, 9cm, and 11cm. How can you use these rods to measure a length of 14cm?</b>
<b>Notes:</b>	

