



# Problem Solving Mat

UNDERSTAND	
I know that...	I need to find out...
PLAN	
I will choose the problem solving strategy.....	
SOLVE	
<b>Create a Representation</b> (For example, use a picture, diagram/table/rule)	<b>Show your work.</b>
CHECK	
<b>Final Answer</b> I found out that...	<b>My answer is reasonable because...</b>

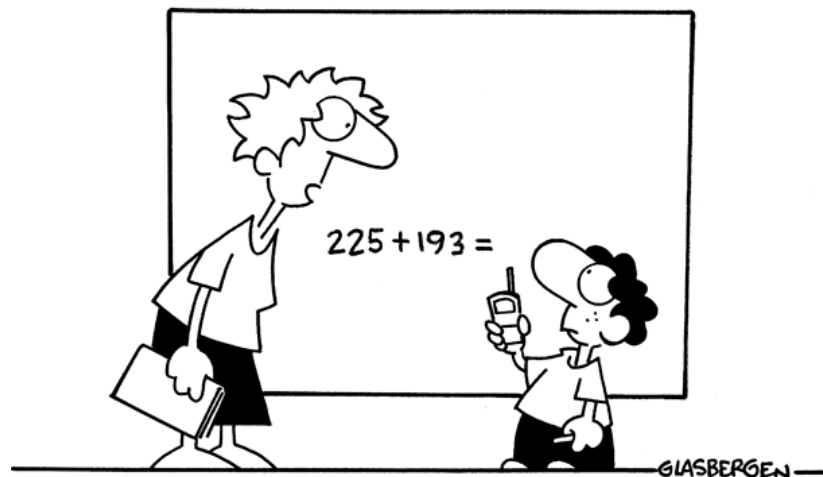
# Problem Solving Mat

UNDERSTAND	
I know that...	I need to find out...
PLAN	
I will choose the problem solving strategy.....	
SOLVE	
<b>Create a Representation</b> (For example, use a picture, diagram/table/rule)	<b>Show your work.</b>
CHECK	
<b>Final Answer</b> I found out that...	<b>My answer is reasonable because...</b>

# Problem Solving

## Student Response Journal

Copyright 2005 by Randy Glasbergen. [www.glasbergen.com](http://www.glasbergen.com)



**“You have to solve this problem by yourself. You can’t call tech support.”**

Name: \_\_\_\_\_

Class Period: \_\_\_\_\_ Date: \_\_\_\_\_

# UPSC

## Secondary Problem Solving Process

### UNDERSTAND

- Read the problem carefully.
- Highlight or circle necessary data, key words, and labels.
- Identify the question.

### PLAN

- Record the information needed to solve the problem.
- Draw a picture or diagram of the situation and label all parts.
- Choose the appropriate strategy, tool, or operation.

### SOLVE

- Write an appropriate equation for the situation.
- Use your plan and data to solve.
- Write your solution with units if applicable.

### CHECK

- Check your math (substitute the value(s) into your equation).
- Did you answer the question?
- Is your answer reasonable?

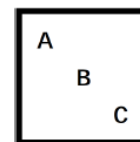
# Problem Solving Strategies:

## Student Reference

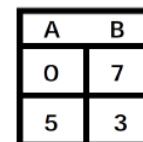
\*remember that there could be more than what is listed here



GUESS AND CHECK



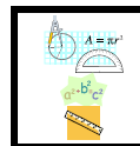
SOLVE A SIMPLER PROBLEM



MAKE A TABLE OR CHART



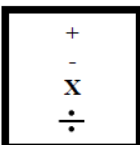
LOOK FOR A PATTERN



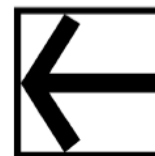
USE THE FORMULA CHART



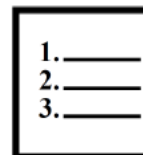
ACT OUT THE PROBLEM



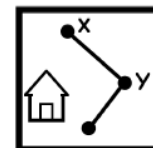
USE A NUMBER SENTENCE



WORK BACKWARDS



MAKE AN ORGANIZED LIST



DRAW A PICTURE OR DIAGRAM



USE LOGICAL REASONING



BRAINSTORM