

Problem Solving Strategies for mathematics

The main aim for teaching and learning about math is to become a better problem solver in all aspects of life. Many problems in life are multistage and require some type of methodical approach. There are a number of things you need to do when solving problems.

Ask yourself exactly what type of information is being asked for? Then determine all the information that is being given to you in the question.

*The strategies below, which provide you with general steps or strategies to solve math problems, are similar to those expressed in **Pólya's book** and should help you unravel even the most complex math problem and problems in your life.*

- ***Use already known facts and Procedures***

Learning how to solve problems in mathematics is to know what to look for. Math problems often require established actions and knowing what procedure to apply. To create measures, you have to be familiar with the problem situation and be able to collect the appropriate information, identify a strategy, and use the strategy suitably.

- ***It requires practice***

When deciding on methods or procedures to use to solve problems, the first thing you will do is look for hint or clues, which is one of the most important skills in solving problems in mathematics. If you begin to solve problems by looking for clue words, you will find that these words often indicate an action.

- ***Clue/ Hint Words plays an important role***

Think of yourself as a math learner. The first thing to do when you encounter a math problem is to look for hint or clue words. This is one of the most important skills you can develop. If you begin to solve problems by looking for clue words, you will find that those words often indicate an operation.

Although clue words will vary a bit from problem to problem, you'll soon learn to recognize which words mean what in order to perform the correct operation.

- ***Look into the Problem Carefully***

For this Do the following:

- *Ask yourself if you've seen a problem like to this one. If so, what is comparable about it?*
 - *What did you need to do in that case?*
 - *What details are you given about the particular problem?*
 - *What details do you still need to find out about the particular problem?*
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- ***Develop an action Plan and do it accordingly***

Based on what you discovered by reading the problem carefully and identifying similar problems you've encountered before, you can then:

- *Define your problem-solving strategy or strategies. This might mean identifying patterns, using known formulas, using sketches, and even guessing and checking.*
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- ***Review/Evaluate Your Work***
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- *If your strategy doesn't work, it may lead you to look back moment and to a strategy that does work.*

If it seems like you've solved the problem, ask yourself the following:

- *Does your solution seem probable?*
- *Does it answer the initial question?*
- *Did you answer using the language in the question?*
- *Did you answer using the same units?*

If you feel confident that the answer is "yes" to all questions, consider your problem solved.

