Cheatography

By Steler

cheatography.com/steler/

Midterm Math BMMA 1st Term Cheat Sheet by Steler via cheatography.com/193298/cs/41144/

What is Inductive Reasoning	Problem Solving with Patte	erns (cont)	Polya's Four-Step Prob	lem Solving Strategy
It is the process of reaching a generalConjecture is the conclusion brought upon this reasoning.conclusion by examining specificUpon this reasoning.examples.be right or wrong		The numbers in a sequence that are separated by commas are	Understand the Problem This part of Polya's four-step strategy is	Can you restate the problem in your own words? Can you determine what is
Uses of Inductive Reasoning Use Using inductive reasoning to		the terms of the sequence . . It is customary	often overlooked. You must have a clear understanding of the	known about these types of problems?
Inductive Reasoning to Predict a Numberpredict the next numberUseUsing inductive reasoning to make a conjecture about the		to use the subscript notation to designate the nth term of a sequence.	problem.	Is there a missing information that, if known, would allow you to solve the problem?
Reasoningrelationship between the sizeto Make aof the resulting number andConjecturethe size of the original number	The "nth" term is a	a1 represents		Is there an extraneous inform- ation that is not
UseScientists often use inductiveInductivereasoning.Reasoningto Solvean Applic- ationto Solve	formula with "n" in it which enables you to find any term of a sequence without having to go up from one term to the next. "n" stands for the term number, so to find the 50th term, we would just substitute 50 in the	the 1st term of a sequence.		needed to solve the problem? What is the goal?
			Devise A Plan	Make a list of the
What is Deductive Reasoning? It is the process of reaching a conclusion by		a2 represents the 2nd term of a sequence.		known inform- ation. • Make a list of information that is needed.
applying general assumptions, procedures, or principles.	formula in place of "n".	a3 represents the 3rd term of	. Successful problem solvers use a variety of techniques when	Draw a diagram. • Make an organized list that
Uses of Deductive Reasoning Using Deductive Reasoning to Establish a Conjecture		a sequence aN represents the nth term of a sequence.	they attempt to solve a problem.	shows all the possibilities. Make a table or a chart. • Work
LogicThese can be solved by usingPuzzlesdeductive reasoning and a chart that enables us to display the given information in a visual manner.				backwards. Try to solve a similar but simpler
	Difference Table	The difference table shows the differences		problem. • Look for a pattern.
Problem Solving with PatternsTerm of aAn ordered list of numbersSequencesuch as 5,14,27,44,65 is called a sequence.		between successive terms of the sequence		Write an equation. If necessary, define what each variable repres- ents. • Perform an experiment.

Not published yet. Last updated 2nd November, 2023. Page 1 of 2. Sponsored by **ApolloPad.com** Everyone has a novel in them. Finish Yours! https://apollopad.com

Cheatography

Polya's Four-Step Problem Solving Strategy (cont)		
	Guess at a solution, then	
	check your result.	
	-	
Carry out the Plan		
Once you	Work carefully. • Keep an	
have	accurate and neat record of	
devised a	all your attempts.	
plan, you		
must carry		
it out.		
	Realize that some of your initial plans will not work and	

that you may have to devise another plan or modify your existing plan.

Review the	Ensure that the solution is
Solution	consistent with the facts of the
	problem. • Interpret the
	solution in the context of the
	problem.
	Ask yourself if there are
	generalizations of the solution
	that could apply to other

By Steler

problems.

cheatography.com/steler/

Not published yet. Last updated 2nd November, 2023. Page 2 of 2. Sponsored by ApolloPad.com Everyone has a novel in them. Finish Yours! https://apollopad.com