Math 200 - Quiz 2

January 25, 2012

Name _key_

Score _____

Show all work to receive full credit. Supply explanations when necessary.

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1. (1 point) Clearly state, in order, the steps of Polya's problem-solving process.

   i) UNDERSTAND THE PROBLEM

   ii) DEVISE A PLAN   iv) LOOK BACK

   iii) CARRY OUT THE PLAN

2. (1 point) When using the problem-solving process which one of these strategies WOULD NOT BE considered part of looking back?

   (a) Check your solution using the original wording of the problem.

   (b) Consider other possible solution methods.

   (c) Generalize.

   (d) Check your work at each step. ⟵ PART OF CARRYING OUT THE PLAN

3. (1 point) State two different strategies associated with understanding the problem.

   CAREFULLY READ AND REREAD THE PROBLEM

   LIST AND NAME VARIABLES

   (FOR OTHERS, SEE THE TEXTBOOK.)

4. (2 points) Gene, Tina, and Brenda have ordered a large pizza. Gene will eat three times as much pizza as Tina. Tina will eat twice as much pizza as Brenda. If the pizza is cut into 36 slices, how many slices will each person get?

A FAIRLY SIMPLE, NON ALGEBRAIC APPROACH IS TO MAKE A TABLE.

BRENDA EATS THE LEAST PIZZA, SO WE'LL START WITH HER IN THE

TABLE. WE'LL BUILD THE TABLE UNTIL 36 SLICES ARE ACCOUNTED FOR.

BRENDA (B)	TINA (T = 2B)	GENE (G = 3T)	TOTAL
1	2	6	9
2	4	12	18
3	6	18	27
4	8	24	36

BRENDA EATS 4.
TINA EATS 8.
GENE EATS 24.