

Mathematics Summer Assignment - 2004

WE, THE MATHEMATICS TEACHERS, HOPE THAT YOU WILL HAVE A SAFE AND FUN FILLED SUMMER.

WE ALSO HOPE THAT YOU WILL REMEMBER THE MATHEMATICS YOU HAVE LEARNED DURING THIS PAST SCHOOL YEAR. TO ENSURE THAT YOU WILL NOT FORGET YOUR MATHEMATICS, HERE IS YOUR FIRST ASSIGNMENT FOR SEPTEMBER 2004:

During the summer, you will keep a journal describing **ten occasions** in which you used mathematics, as a procedure or as a strategy.

For example:

This morning I visited my aunt in the Bronx. My aunt was supposed to meet me at the subway station at 10:00 A.M. The trip required me to get to the Number 6 train, and get off at Castle-Hill Avenue. I also had to consider that I needed to take a bus to get to the number 6 train. The bus trip takes approximately 45 minutes, and the ride on the number 6 train takes approximately 15 minutes.

*To ensure my timely arrival, I used the strategy *Working backwards* to plan my morning, and to calculate the time that I should have been at the subway station to begin the trip.*

The following is a list of some of the mathematical procedures you have learned:

*ARITHMETIC OPERATIONS (+, -, ETC.)

*SOLVING EQUATIONS

*WORKING WITH SIGNED NUMBERS

The following is a list of problem solving strategies you have learned:

*WORKING BACKWARDS

*FINDING A PATTERN

*ADOPTING A DIFFERENT POINT OF VIEW

*SOLVING A SIMPLER ANALOGOUS PROBLEM

*CONSIDERING EXTREME CASES

*MAKING A VISUAL REPRESENTATION

*INTELLIGENT GUESSING AND TESTING

*ACCOUNTING FOR ALL POSSIBILITIES

*ORGANIZING DATA

*LOGICAL REASONING

Your assignment is due Monday, September 20, 2004.

Your entries must:

be written in full / complete sentences

be grammatically correct

be neatly typed or printed

be numbered with each entry titled

be detailed and descriptive of the event and the mathematical application(s)

Note: No calculations are required.

This assignment will be graded and counted as your first **ten homework** assignments.

Have Fun !!!!