

Honors Algebra 2 Summer Assignment 2008: Part II

The Writing Prompts

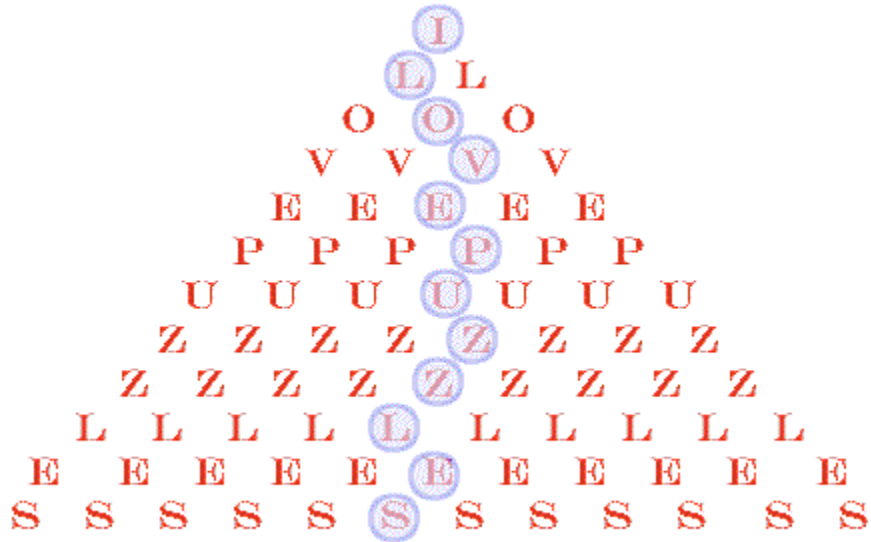
Once you have attempted the four problems (on the following pages) in this section of your summer assignment, respond to the following prompts. Answers may be typed or neatly handwritten and should be at least one paragraph in length. Good responses should elaborate upon strengths and weaknesses, showing an in-depth awareness of your problem-solving skills. Grammatical errors in your responses will also be noted.

1. Compare the methods by which you solved the problems. For example, did you draw a picture, act it out, break it down, list all possibilities, read it aloud, discuss it with someone, work backwards, write an equation, etc.? What things did you do that really helped you solve the problems? Are there strategies you used that worked for more than one problem? What do your strengths appear to be in solving problems?
2. Which two problems were your favorite in this assignment? Why did you pick them as your favorite problems to work? Can you think of any other types of problems you have worked that utilize these same skills to solve them? If so, describe them or give an example. What are a few reasons you like working these problems?
3. Which two problems were your least favorite in this assignment? Why did you pick them as your least favorite problems to work? Can you think of any other types of problems you have worked that utilize these same skills to solve them? If so, describe them or give an example. What are a few reasons you dislike working these problems?
4. In looking over your work as a whole, what aspects of problem-solving appear to be your weakest areas? Is it in *understanding the problem*, *devising a strategy for solving the problem*, *carrying out your strategy*, or *verifying that your solution makes sense*? Elaborate upon your reasoning, and state a few ideas for how you might improve these weaker areas over the course of the coming school year.

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#1: The Pinball Puzzle

Below is a triangle of letters. You can spell I LOVE PUZZLES by bouncing down the letters like a pinball from the I down to the S. How many ways can you spell I LOVE PUZZLES? You may only bounce to one of the two letters below the letter you last hit. One possible path has been marked.



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#2: Chew on This



If the third letter before the second consonant after the third vowel in the alphabet is in the twenty-sixth word of this problem, then print the fortieth word of this problem and then print the twenty-second letter of the alphabet after this word. Otherwise list three uses for chewing gum.

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#3: Reasonable 'rithmetic

Each letter in these problems represents a different digit.

1. What is the value of C?
2. What is the value of D?
3. What is the value of K?
4. What is the value of N?

$$\begin{array}{r} 8789 \\ 3BA7 \\ 482A \\ + 7AB5 \\ \hline 2C287 \end{array}$$

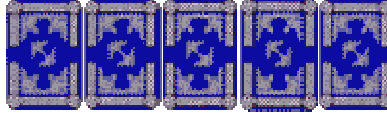
$$\begin{array}{r} DEF F \\ - E2F6 \\ \hline 1997 \end{array}$$

$$\begin{array}{r} GJ \\ 7 \overline{)HGK} \\ \underline{21} \\ HK \\ HK \end{array}$$

$$\begin{array}{r} 52 \\ LQ \overline{)NM2} \\ \underline{NP} \\ M2 \\ M2 \end{array}$$

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#4: Pick A Card



Nine cards are arranged in a 3 by 3 array.
Every jack borders on a king and a queen
(horizontally or vertically, but not diagonally).
Every king borders on an ace.
Every queen borders on a king and an ace.
There are at least two aces, two kings,
two queens, and two jacks.
What kind of card is in the center
position of the 3 by 3 array?