## Logic 3

Due Friday, November 22, 2013

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\text { Logic } 1 \text { - Time = }
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$\qquad$
Fill in the blanks using each of the numbers 1-12 to make each row and column have a sum of 17 . I have filled in the blanks with a few of the numbers to help you. I did have to use the number 2 twice in order to make things work for you.


Logic 2 - Time = $\qquad$
There are 11 teams in a basketball tournament and each team must play the other team once and only once. How many different games must be scheduled? $\qquad$
$\qquad$
On my last test, there were 5 more B's than A's and twice as many C's as B's. There were no D's or F's. Out of the 91 tests, how many made a B?

## Logic 4 - Time =

$\qquad$
Fill in the blanks with the appropriate digits to make the problem a true multiplication problem.

$109, \square 5 \square$

## Logic 5-Time =

Fill in the blanks with each of the numbers 1-10 such that no two consecutive numbers are adjacent to one another vertically, horizontally, or cornerwise.


## Logic 6 - Time =

Fill in the blanks with each of digits 1-9 so that each of the columns, rows, and main diagonals add up to a different number.

$\qquad$
Using the numbers 1-14, place them in the hexagons below so that no consecutive numbers are adjacent and no number has one of its factors next to it except the number 1. I have placed 1 and 11 in the blanks to help you.

For example, 12 has the factors $1,2,3,4,6,12$, so you could not place $2,3,4$, or 6 beside the 12 .


Logic 8 - Time = $\qquad$
How many rectangles (a square is a rectangle) can be drawn using four of these twelve evenly spaced points?

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