



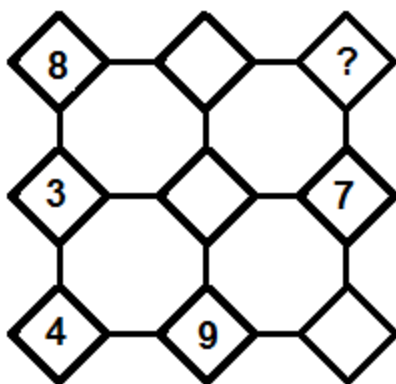
NOETIC LEARNING

PROBLEM OF THE WEEK

FEBRUARY 2, 2015

THE PROBLEM:

Mario is trying to figure out the following puzzle. Which number should go in the cell with the question mark so that the sum of the 3 numbers in any horizontal or vertical line is the same?



(Source: the [Noetic Learning Math Contest](#) 2010 fall, Grade 5)

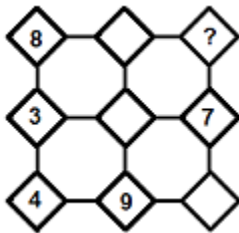


NOETIC LEARNING PROBLEM OF THE WEEK

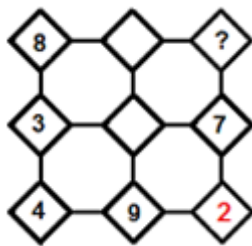
FEBRUARY 2, 2015

THE SOLUTION:

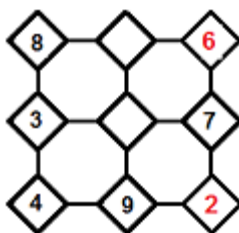
The sum of one column is: $8 + 3 + 4 = 15$. Thus the sum of 3 numbers in any column or row should be 15.



Then we can find out the number in the right lower corner: $15 - 4 - 9 = 2$.



Finally, we can find the number in question mark: $15 - 2 - 7 = 6$.



THE ANSWER: 6