

COUNTDOWN CHALLENGE

Why is this a MAGIC SQUARE?

Diagonal 1	Column 1			
Row 1		2	7	6
		9	5	1
		4	3	8

1. What is the sum of the numbers in Row 1? _____
2. What is the sum of the numbers in Row 2? _____
3. What is the sum of the numbers in Row 3? _____
4. What is the sum of the numbers in Column 1? _____
5. What is the sum of the numbers in Column 2? _____
6. What is the sum of the numbers in Column 3? _____
7. What is the sum of the numbers in Diagonal 1? _____
8. What is the sum of the numbers in Diagonal 2? _____

Why this works:

If $5 = n$, write each number as an algebraic expression using N and fill in the Magic Square. (We got you started!)

	$n + 2$	
	n	
	$n - 2$	

Can any arithmetic sequence of numbers form a magic square?

Try the sequences listed below each square...then create your own and amaze your friends with your magic!

0, 1, 2, 3, 4, 5, 6, 7, 8

21,22,23,24,25,26,27,28,29

-4, -3, -2, -1, 0, 1, 2, 3, 4