

Math Challenge #8



First Name: _____

Last Name: _____

Grade: _____

Teacher: _____



Math Challenge 8 is about Magic Circles and Squares which have been of interest to mathematicians for millenia. Try all the problems have fun. Turn your answers in by **Thursday, January 26, no later than 3 p.m.**

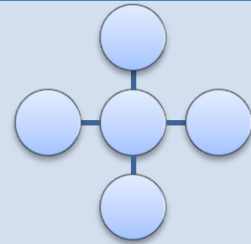
The prize for this challenge is a puzzle cube eraser. Four winners, selected at random, will be announced on Monday, January 30.

Kinder, First & Second Grade: Solve at least 3 puzzles.

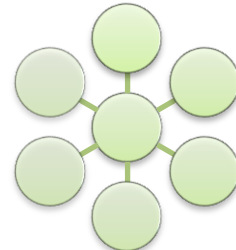
Third & Fourth Grade: Solve at least 6 puzzles.

Fifth & Sixth Grade: Solve at least 9 puzzles.

1. Write each of the numbers 0, 1, 2, 3, 4 once in the circles so that the three numbers in each straight line add up to 6.



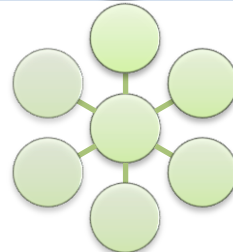
2. Write each of the numbers 1, 2, 3, 4, 5, 6, 7 once in the circle so that the three numbers in each line add up to 12.



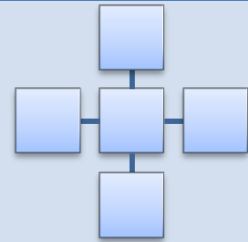
3. Write each of the numbers 2, 4, 6, 8, 10, 12, 14 once in the circles so that the three numbers in each line add up to 24.



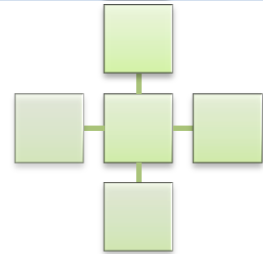
4. Write each of the numbers 1, 3, 5, 7, 9, 11, 13 once in the circles so that the three numbers in each line add up to 21.



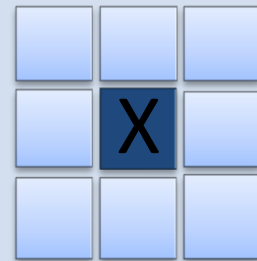
5. Write the numbers 1, 2, 3, 4, 5 once in the squares so that the three numbers in the row across and the column down add up to 9.



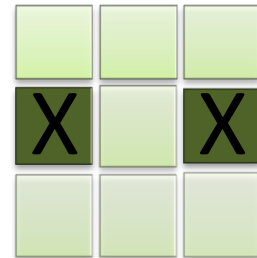
6. Write each of the numbers 2, 4, 6, 8, 10 once in the squares so that the three numbers in the row across and the column down add up to 18.



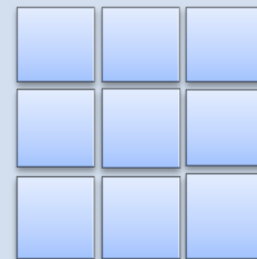
7. Write each of the numbers 1, 2, 3, 4, 5, 6, 7, 8 so that the three numbers in the rows across and the columns down add up to 12.



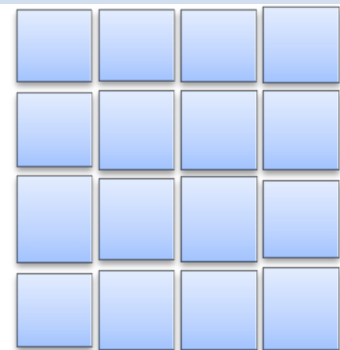
8. Write each of the numbers 1, 2, 3, 4, 5, 6, 7 so that the three numbers in the rows across, the columns down and the diagonals add up to 12.



9. Write each of the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9 once in the squares so that the three numbers in the rows, the columns down, and the diagonals add up to 15.



10. Write each of the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 once in the squares so that the four numbers in the rows, the columns down, and the diagonals add up to 34.



Math Challenge 9 will be available on **February 3, 2012** at www.mathinaction.org and in our school's newsletter on **February 6, 2012**

