



# Homework

Dear Family Member:

Magic squares are ancient number puzzles that have intrigued people for thousands of years. In a magic square, the numbers in the rows, columns, and diagonals all have the same sum. Here is a magic square with the sum 15. Thank you.

2	7	6
9	5	1
4	3	8

1. Here is an incomplete magic square:

3	9	6
	6	
6		

- A. What is the sum of the first row? \_\_\_\_\_
- B. Use 3, 3, 9, and 9 to complete the magic square. Remember that each row, column, and diagonal must have the same sum.

2. Which of the following is a magic square?

A.

7	14	9
12	10	8
11	6	13

B.

11	6	13
7	11	15
14	10	9

Explain why the other puzzle is not a magic square.

**3.** Here is an incomplete magic square.

**A.** What is its sum? \_\_\_\_\_

**B.** Use the digits 5, 7, 11, and 12 to complete the magic square.

6	13	8
	9	
10		

**4.** Find a different magic square that uses the same sum and numbers as the one in Question 3. Use the digits 5, 6, 7, 8, 9, 10, 11, 12, 13.
