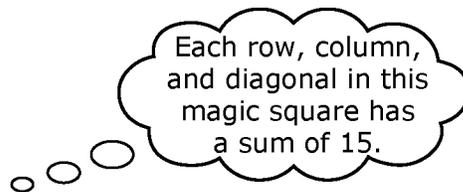
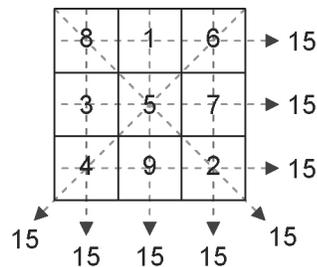


Magic Squares

Materials

BLM Magic Square Blanks

Amanda and Tyler’s math teacher presents a puzzle to the class every week. This week, the puzzle is called a magic square. In a magic square, each row, column, and diagonal has the same sum. This sum is called the *magic number*.



1. Help Amanda and Tyler find the missing integers that complete this magic square. Show your thinking. What is the magic number?

+4		
	+1	
+2		-2

2. Tyler says that this is a magic square. Amanda says that it isn't. Who is correct? Justify your response.

+1	+2	-3
-4	0	+4
+3	-2	-1

3. The magic number is the same for both squares below.
a) Solve the magic square on the left. What is the magic number?
b) What is the value of x in the magic square on the right? Write an expression for each missing number.

		0
	-1	+1
-2		

	$x-4$	0
$x-2$	x	$x-2$

4. Create one original magic square. Use both positive and negative integers. Then, create another magic square using a variable.