

Step 1: Look at the following 3 × 3 magic-algebraic square and follow the instructions:

- Add the expressions of the squares for each row, each column, and each diagonal. You must get eight expressions (column A, column B, column C, row 1, row 2, row 3, and the two diagonals).
- Each row, each column and each diagonal must add up the same. That is, the sum of column A must be equal to the sum of column B ... Match row 1 with column A and row 3 with column B.
- How much is x? How much is the magic constant worth?
- Check that all sums of columns, rows, and diagonals are equal to the magic constant.
- Find the number represented by each of the expressions in the square and transform it into a magic number square.

* You have to fill the *Magic number square* and the answers *x* and the *magic constant.* When you think it is OK you press FINISH to see your points and take note of it.

	A	B	C
1	$x + 5$	x	$x + 1$
2	$\frac{x}{3}$	$2x - 1$	x^2
3	$3\,(x - 1)$	$x^2 - 2$	$x - 1$

Magic number square!

Step 1 answers:

x =	
magic constant =	

LIVEWORKSHEETS