

Math Magic Trick 10

Start:

Teacher tells the person to do the following:

Step 1) Write any whole number	example:	4
Step 2) Add 3		7
Step 3) Multiply by 2		14
Step 4) Subtract 4		10
Step 5) Divide by 2		5
Step 6) Subtract the original number		1

Mental Trick:

Teacher tells the person that the final number is one.

How teacher gets the answer:

The final answer is always one.

Why it works:

Step 1) Write any whole number	example:	x
Step 2) Add 3		x + 3
Step 3) Multiply by 2		2(x + 3)
Step 4) Subtract 4		2(x + 3) - 4
Step 5) Divide by 2		(2(x + 3) - 4)/2
Step 6) Subtract the original number		(2(x + 3) - 4)/2 - x
Simplifying:		(2(x + 3) - 4)/2 - x
		(2x + 6 - 4)/2 - x
		(2x + 2)/2 - x
		(2x + 2)/2 - x
		2(x + 1)/2 - x
		x + 1 - x
		1