## Accelerated Math Chapter 7 Algebraic Expressions

Prove that these "Math Magic" problems **ALWAYS** work

\*\*Create the algebraic expression that represents each sequence of commands.

\*\*Simplify your algebraic expression

Let n = the number

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10 20

25

125

100

10

## Whitelian Motolke

Choose any number

Multiply by 2

Add 5

Multiply by 5

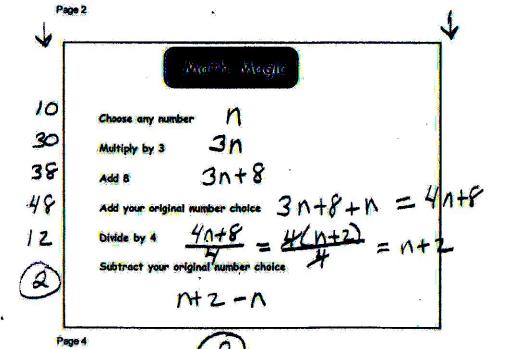
Subtract 25

Divide by 10.

ian+8-25 = 10 n

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	When the wheepte	
10	Choose any number	
40	Multiply by 4 4 M	
32	Subtract 8 4n -8	
8	Divide by 4 $\frac{4n-8}{4n-8} = \frac{4(n-2)}{4n-2} = n-2$	L
10	Add 2 4	-
	n-2+2 = 6	



## Choose any number NAll Add the number one larger than your N + (N+1) = 2N+1original number choice 32 Add 11 2N+1+11 = 2N+1216 Divide by 2 2N+12 = 2(N+6)Subtract your original number choice N+6-N 6

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