



MasterMath

**Algebra**  
WRITING & EVALUATING  
EXPRESSIONS



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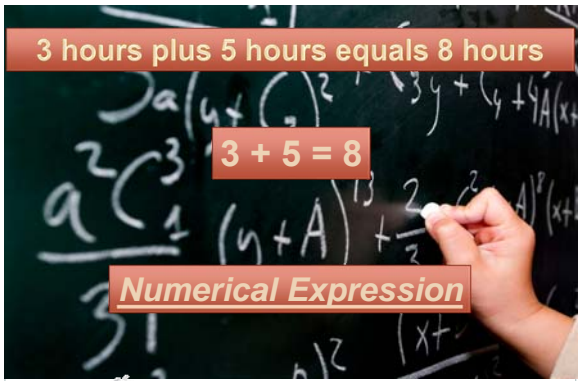
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3 hours plus 5 hours equals 8 hours

$3 + 5 = 8$

*Numerical Expression*

WRITING & EVALUATING EXPRESSIONS



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How many hours plus 5 hours equals  $c$  hours?

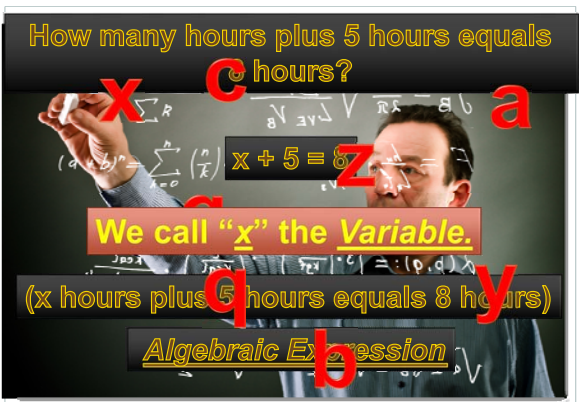
$x + 5 = c$

We call " $x$ " the Variable.

( $x$  hours plus 5 hours equals 8 hours)

*Algebraic Expression*

WRITING & EVALUATING EXPRESSIONS



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The Variable is the unknown number. It's what we want to find out.

When you have a word problem, and you are asked a question like "how many", just substitute "x" for "how many".

WRITING & EVALUATING EXPRESSIONS

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How many dollars plus \$3 equals \$5 dollars?

↳ **x**

$$x + 3 = 5$$

WRITING & EVALUATING EXPRESSIONS

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*You try it!*

It costs \$3 for tickets to the dance.  
You have 4 friends you want to take.  
How much will it cost?



WRITING & EVALUATING EXPRESSIONS

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***You try it!***

It costs \$3 for tickets to the dance.  
 You have 4 friends you want to take.  
How much will it cost? → x

$$\$3 \times 4 = x$$

$$\$12 = x$$

WRITING & EVALUATING EXPRESSIONS

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***You try it!***

You got a 85 on your first math test,  
 and a 93 on your next math test. By  
 how many points did your grade  
 improve?



WRITING & EVALUATING EXPRESSIONS

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***You try it!***

You got a 85 on your first  
 math test, and a 93 on your  
 next math test. By how many  
 points did your grade improve?

$$93 - 85 = x$$

$$8 = x$$

WRITING & EVALUATING EXPRESSIONS

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