

# WARM UP

- Page 110 questions 5, 6, 7, and 8.

# MATH COURSE I

Expressions

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# VOCABULARY

- variable: a symbol used to represent a quantity about that can change
- constant: a value that does not change
- algebraic expression: an expression that contains at least one variable
- numerical expression: an expression that contains only numbers and operations
- evaluate: to find the value of a numerical or algebraic equation

# Words in Math

**+** : addition, added to, plus, the sum of, more than, increased by

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**-** : subtraction, minus, less than, take away, the difference of, subtracted from, decreased by

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**x** : multiplication, groups of, product, multiplied by, times

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**÷** : division, divide by, quotient, the ratio of

# Evaluating Expressions

**Step 1: Substitute a number for the variable.**

**Step 2: Simplify to find the value.**

# Example

Evaluate an algebraic expression.

Problem:  $5 + y$

$y$	$5 + y$
8	$5 + 8 = 13$
9	$5 +$
10	$5 +$

# Example

A rectangle is 4 units wide.  
What is the area of the  
rectangle if it is 3, 4, or 5  
units long.

Area = length x width

l	w	l x w
3	4	12
4	4	
5	4	

# Write an Expression

Write an expression  
for the missing value  
in the table.

What does  $x$   
represent?

$x =$

Will's Age	Dan's Age	Expression
2	6	
3	7	
4	8	



# Write an Expression

Write an expression for the **area** of a figure.

Example: A triangle has a base of 8 inches. Create a table that shows the area of the triangle for different heights. Write the expression.

b	h	Expression / Area
8		$\frac{1}{2} \cdot 8 \cdot$
8		$\frac{1}{2} \cdot 8 \cdot$
8		$\frac{1}{2} \cdot 8 \cdot$

$$\text{Area} = \frac{1}{2}bh$$

# Practice

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