Consecutive Integer Word Problems

SWBAT translate word expressions into mathematical equations and solve for the determined variable.

Translating Symbols into Words

+	−
÷	X

Directions: Translate the following into algebraic expressions. Use "x" as the unknown variable.

1. Fourteen divided by a number _____

2. Seven times a number _____

3. 10 less than a number _____

4. 12 more than a number _____

5. 4 times a number plus 5 times the same number _____

6. The sum of 6 and a number divided by 10 _____

7. 20 decreased by 4 times a number _____

8. One-half the product of 8 and a number _____

Solving Multi-Step Word Problems

Step 1: Read the problem
Step 2: Underline or highlight the question
Step 3: Define the variable
Step 4: Reread the problem and write the equation
Step 5: Solve!

One Unknown (easy): Jennifer has $25.00. She needs $49.00 to buy a new school outfit. How much more money does she need?

One Unknown (difficult): Martha takes her niece and nephew to a concert. She buys T-shirts and bumper stickers for them. The bumper stickers cost $1 each. Martha's niece wants 1 shirt and 4 bumper stickers, and her nephew wants 2 shirts but no bumper stickers. If Martha's total is $67, what is the cost of one shirt?

Consecutive Integer Word Problems
Integer: A positive or negative whole number.
Consecutive: In a row

Consecutive Integer		Consecutive Even Integers		Consecutive Odd Integers	
Example:	**In terms of n**	**Example:**	**In terms of n**	**Example:**	**In terms of n**

Consecutive Integer: Three consecutive integers add to a sum of -96. What is the largest (closest to zero) of the three integers?

Consecutive Integer (difficult): There are two consecutive integers such that four times the smaller plus three less than twice the larger is 71. What are the two integers?

Consecutive Odd/Even Integer: Two consecutive odd integers have a sum of 40. What are the two numbers?

Consecutive Odd/Even Integer (difficult): There are three consecutive even integers such that the sum of twice the smallest, one less than the middle, and four more than the largest is -15. What are the three integers?