2-3
Solving Multi-Step Equations
involving more than one operation

Multi-Step equations include two or more operations. To solve a multi-step equation, "UNDO" the operations in REVERSE of the order of operation!

Example 1: $2x + 11 = 3$ PEMDAS

Example 2: $\frac{k+9}{12} = -2$ PEMDAS

Example: $-3 = 2 + \frac{a}{11}$ PEMDAS

Example 3 Write an equation and solve:

Susan had a $10 coupon for the purchase of any item. She bought a coat that was on sale of half its original price. After using the coupon, Susan paid $125 for the coat before taxes. What was the original price of the coat?

Consecutive integers are integers in counting order, such as 1, 2, 3,. . . or -4, -3, -2. If n is the first integer, n+1 is the next consecutive integer.

Type	Words	Symbols	Example
Consecutive Integers	Integers in Counting order	n, n+1, n+2, . .	..., -1, 0, 1, 2, 3, . . .
Consecutive Even Integers	Even integer followed By the next even in integer	n, n+2, n + 4	..., -2, 0, 2, 4,...
Consecutive Odd Integers	Odd integer followed by the next odd integer	n, n + 2, n + 4	...-1, 1, -3, -5

Example 3:

Find three consecutive odd integers with a sum of 57.

Start by defining the first integer:

And define the second integer:

And define the third integer:

Now write an equation using your defined integers and solve