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Welcome!

#1.2c

Ms. Walczak
(Wall-Zack)

DO NOW:

- **Turn in** any late homework to the bin on Ms. Walczak's desk.
- **Grab YOUR calculator** from the wall by the door.
- **Grab YOUR Chromebook** from the cart.
- Take out your **Warm Up Sheet**.

Homework: [Google Classroom #0a](#) and [#0b](#) - due today

Essential Question: How do you solve equations?

1.2 Solving Multi-Step Equations

Combining Like Terms:

Adding or subtracting coefficients of terms with the same variable and same exponent.

Example 1: Circle or box the like terms:

$3m$ $2y$ $9m^2$ $-6m$ $502y$ $1x$ $-4y$

Diagram illustrating like terms: $3m$ is boxed; $2y$, $502y$, and $-4y$ are circled. Arrows point from the circled terms to the label "Coefficient".

Example 2: Simplify the expressions

a) $5m - 23 + 2m$

$7m - 23$

b) $11q - 6q - 8$

$5q - 8$

c) $5 + (-2y) + 5y$

$5 + 3y$

Inverse Operations:

$$\sqrt{x^2} = x$$

Addition	Subtraction	Multiplication	Division	Squaring	Square Rooting
Subtraction	Addition	Division	Multiplication	Square rooting	Square

Solving Equations: Goal = Variable = # For ex: $x=10, n=-2, m=50$
*Order of choices doesn't matter

Choice 1: Distribute and/or combine like terms

Choice 2: Use inverse operations on both sides of = sign.

*** Check by plugging answer into original equation

Example 3: Solve the equations:

a) $(t+4)+2t=67$

b) $36 = -8(2x-1)$ ①
 $36 = -16x + 8$
 $-8 \quad -8$ ② j

 $28 = -16x$
 $-16 \quad -16$

 $x = -1.75$

c) $25.24 = 5g + 3.89$

d) $-63 = -4(r+6)$ ②
 $-63 = -4r - 24$
 $-4 \quad -4$

$15.75 = r + 6$
 $-6 \quad -6$

 $9.75 = r$

