**Write Multi-Step Equations**

| Scenario | Define Variable & Write Equation |
|---|---|
| Marcy buys some apples that cost $1 each. He also spends $4 on other fruit. Kelsey buys some apples that cost $2 each at another store. Altogether they spent $10. How many apples did they buy? | |
| Mr. Sellers prints 5 fewer papers than Ms. Russell prints. Ms. Draper prints twice as many as Mr. Sellers prints. Ms. Draper printed 80 papers. How many papers did Ms. Russell print? | |
| A cab company charges $2 for getting a ride plus $1.50 per mile. Four girlfriends split the cab fare. They each pay $2. How many miles was their trip? | |

**Solve Multi-Step Equations**

| Example | Words | You Try |
|---|---|---|
| 1) $3x + 7 - 8x = -3$ | | 3) $2 - 4y + 6 - 2y = -4$ |
| 2) $3 + 2(7x - 3) - 9x = 7$ | | 4) $-5(2x - 1) + 9x - 2 = -8$ |

**Solving Equations with More Fractions**

| Example | Words | You Try |
|---|---|---|
| 5) $\quad \dfrac{3x}{4} + \dfrac{9}{4} = 3$ | | 7) $\quad \dfrac{5}{7}x - \dfrac{1}{7} = 2$ |
| 6) $\quad \dfrac{2}{3}x + 2 - \dfrac{3}{4}x = 1$ | | 8) $\quad \dfrac{10}{3}n + \dfrac{2}{3} - \dfrac{5}{2}n = \dfrac{7}{3}$ |

Key Ideas:

_____ by distributive property and combining like terms.

Clear the fractions by multiplying _____ on both sides by the _____.

Finally, solve the _____ equation: add/subtract THEN multiply/divide.