

Warm-Up Notes

MAT 100: ELEMENTARY ALGEBRA

— Fall 2026 —

SECTION 2.5 SOLVE EQUATIONS WITH FRACTIONS OR DECIMALS

Install — 10 minute lesson

Objectives of this Section

- Solve equations with fraction coefficients
- Solve equations with decimal coefficients

Skills**Introduced in this section:**

- **EQN.FD** — Equations with Fractions or Decimals

Also practiced: WRD.NM (Naming the model), WRD.EQ (Decoding an explicit equation).

Lesson

When an equation has fractions or decimals in it, you don't have to work with the fractions or decimals at all. You can multiply both sides of the equation by one number that clears them away, turning the equation into the same kind of whole-number equation you already know how to solve.

I do

Watch. Solve each equation with fraction coefficients. $\frac{3v-6}{2} + 5 = \frac{11v-4}{5}$

We do

Together. Solve each equation with fraction coefficients. $\frac{5}{6}n - \frac{1}{4}n - \frac{1}{2}n = -2$

You do

Your turn. Solve each equation with fraction coefficients. $\frac{v}{10} + 1 = \frac{v}{4} - 2$

Your turn. Solve each equation with fraction coefficients. $\frac{4m+2}{6} = \frac{m}{3}$

Practice

1. Solve each equation with fraction coefficients. $\frac{5}{6}n - \frac{1}{4}n - \frac{1}{2}n = -2$

2. Solve each equation with decimal coefficients. Show your work. $2.1k + 3 = 7.2$

3. Solve each equation with fraction coefficients. $\frac{3}{4}x - \frac{1}{2} = \frac{1}{4}$

4. Solve each equation with decimal coefficients. Show your work. $0.05(q - 8) + 0.25q = 4.10$