

Solving for x: Lesson 11

Clearing Fractions: Notes

Name: _____

MATH  ALL

Steps:

1. Notice if the terms have a lot of decimals, extra zeroes, or fractions.
2. Decide what to x or ÷ everything by.
 Decimals and extra zeroes: move decimals back and forth.
 Fractions: Find a common denominator for all terms.
3. Multiply or divide each term by your choice to make it prettier!

Eliminate decimals:

$$\underline{100} (4.56d + 5.80d + 7.6 = 9.75 - 2d)$$

$$\underline{456d} + \underline{580d} + \underline{760} = \underline{975} - \underline{200d}$$

Eliminate zeroes:

$$\underline{56,000}y - \underline{48,000} = \underline{18,000}y + \underline{23,000}$$

$$\underline{56y - 48 = 18y + 23}$$

Clear fractions:

$$\underline{\frac{40}{1}} \left(\frac{3}{8}b + \frac{3}{10} - \frac{2}{5}b = \frac{3}{4}b - 5 \right)$$

Common denominator: 40

$$\underline{15b + 12 - 16b = 30b - 200}$$

$$\underline{\frac{4}{1}} \left(\frac{-5}{2}j - 6 - \frac{3}{4}(10j - 8) = \frac{1}{2}(3j + 8) - 7 \right)$$

$$\underline{-10j - 24 - 3(10j - 8) = 2(3j + 8) - 28}$$