

2-3 notes.notebook

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Solving Multi-Step Equations

To solve multi-step equations, you form a series of simpler equivalent equations. To do this, use the properties of equality, inverse operations, and properties of real numbers. You use the properties until you isolate the variable.

Mathematical processes you need to be ready to use

Combining like terms
 $4x + 3 - 7x$

The distributive property
 $4(3x + 5)$

Fraction and decimal operations
 $4.8 - 2.9$ $\frac{1}{2} - \frac{3}{4}$

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4) $5(2x - 3) = 15$

5) $n + 5(n - 1) = 7$

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Examples

1) $8 - q - q = 16$

2) $15 = 3y - 6 - 10y$

3) A family buys airline tickets online. Each ticket costs \$167. The family buys travel insurance with each tickets that costs \$19 per ticket. The web site charges a fee of \$16 for the entire purchase. The family is charged a total of \$1132. How many tickets did the family buy?

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6) $\frac{2z}{6} + \frac{3z}{6} = \frac{25}{6}$

7) $\frac{r}{5} - \frac{3r}{10} = \frac{1}{5}$

8) Solve for x. (Note: the sum of the interior angles measures of a quadrilateral is 360° .)

