

Fill in the blank with the missing numerator or denominator to make the equality a true statement.

1. $\frac{2}{7} = \frac{\quad}{35}$

2. $\frac{3}{5} = \frac{9x}{\quad}$

Add or Subtract the following fractions. Reduce the fraction to simplest form.

3. $\frac{3}{4} + \frac{a}{3} - \frac{b}{6}$

4. $x + \frac{x}{2} - \frac{2x^2}{3}$

Simplify the following complex fractions using **both** methods. Reduce where possible.

Method 1: LCD num. & LCD denom.

Invert & Multiply

Method 2: Multiply by $\frac{\text{LCD}}{\text{LCD}}$ of all

5. $\frac{4 - \frac{1}{3}}{\frac{10}{10}}$

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6. $\frac{x + \frac{2}{x}}{\frac{1}{4}}$

$\frac{x + \frac{2}{x}}{\frac{1}{4}}$

7. $\frac{\frac{a+b}{1} + \frac{1}{b}}{\frac{1}{a} + \frac{1}{b}}$

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ANSWERS

1. 10

2. $15x$

3. $\frac{9 + 4a - 2b}{12}$

4. $\frac{9x - 4x^2}{6}$

5. $\frac{11}{30}$

6. $\frac{4(x^2 + 2)}{x}$

7. ab