

Adding and Subtracting Fractions, Mixed Number, and Rational Expressions

When the denominators are the same, just add/subtract the numerators.

Ex 1.

$$\frac{3}{7} + \frac{2}{7} =$$

$$\frac{1}{6} - \frac{5}{6} =$$

$$\frac{7x}{12} + \frac{x}{12} =$$

$$\frac{b+8}{7a} - \frac{9-b}{7a} =$$

To add/subtract fractions with different denominators, we need to rewrite them so they have a _____ . In particular, the LCD is a common denominator that helps keeps all the numbers small.

Ex 2.

$$\frac{3}{8} + \frac{1}{6} =$$

$$\frac{7}{3x} - \frac{9}{6x^3} =$$

Ex 3.

$$3\frac{3}{4} + 8\frac{4}{5} =$$

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

$$8 - 5\frac{1}{4} =$$

Ex 4.

Solve: $-4\frac{1}{7} = t - \frac{2}{5}$