Put It All Together: Add and Subtract Fractions

Let's add and subtract fractions with unlike denominators.

Warm-up

Number Talk: Sums with $\frac{1}{8}$

Find the value of each expression mentally.

- $\frac{1}{8} + \frac{5}{8}$

- $\frac{1}{8} + \frac{6}{16}$

- $\frac{1}{8} + \frac{1}{3}$

- $\frac{1}{8} + \frac{5}{12}$

Common Denominators

$$\frac{4}{6} + \frac{5}{8}$$

Tyler says: "I can find the sum, using 18 as a common denominator."

Han says: "I can find the sum, using 24 as a common denominator."

Clare says: "I can find the sum, using 48 as a common denominator."

1. With whom do you agree? Explain or show your reasoning.

2. What is the value of $\frac{4}{6} + \frac{5}{8}$?

3. Are there other common denominators you can use to find the sum? Explain or show your reasoning.

Unlike Denominators

Find the value of each expression. Explain or show your reasoning.

1. $\frac{2}{5} + \frac{13}{15}$

2. $\frac{6}{5} - \frac{1}{3}$

3. $\frac{11}{12} + 3\frac{5}{9}$

4. $\frac{6}{10} - \frac{9}{25}$