



# Use Expressions with the Same Value

Let's use expressions with the same value to add and subtract fractions with unlike denominators.

## Warm-up

### True or False: Fraction Addition and Subtraction

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$

- $\frac{1}{2} + \frac{1}{4} = \frac{2}{4}$

- $\frac{3}{4} - \frac{1}{2} = \frac{2}{4}$

## Activity 1

### Sums with the Same Value

1. Why is each expression equivalent to  $\frac{2}{3} + \frac{10}{12}$ ? Explain or show your reasoning.

◦  $\frac{8}{12} + \frac{10}{12}$

◦  $\frac{4}{6} + \frac{5}{6}$

2. Find the value of the expression  $\frac{2}{3} + \frac{10}{12}$ . Explain or show your reasoning.



## Activity 2

### Find the Value of the Difference

1. Find the value of the expression  $\frac{16}{12} - \frac{3}{6}$ . Explain or show your reasoning.
2. Compare strategies with a partner. How are they alike? How are they different?



## Activity 3

### Grow Plants

Jada and Andre compare the growth of their plants. Jada's plant grew  $1\frac{3}{4}$  inches since last week. Andre's plant grew  $\frac{7}{8}$  inch. How much more did Jada's plant grow? Explain or show your reasoning.