Unit 3, Lesson 10

The Numbers in Subtraction

Let's subtract fractions from whole numbers.

Warm-up

Number Talk: Groups of Twelfths

Find the value of each expression mentally.

- $2 \times \frac{3}{12}$
- $6 \times \frac{3}{12}$
- $12 \times \frac{3}{12}$
- $12 \times \frac{30}{12}$

Activity 1

What's Left?

1. A pitcher contains 3 cups of watermelon juice. If you pour each of these amounts from the full pitcher, how many cups are left after each pour?

   a. $\frac{1}{4}$ cup

   b. $\frac{5}{4}$ cups

   c. $1\frac{1}{4}$ cups

   d. $2\frac{2}{4}$ cups

2. A second pitcher contains 4 cups of water. If you pour each of these amounts from the full pitcher, how many cups are left after each pour?
   Explain or show your reasoning. Use diagrams or equations, if they are helpful.

   a. $\frac{1}{3}$ cup

   b. $\frac{5}{3}$ cups

   c. $2\frac{2}{3}$ cups

Activity 2

Card Sort: Twelfths

Your teacher will give you a set of cards that show fractions and expressions with fractions.

1. Sort the cards into two categories in a way that makes sense to you. Be ready to explain the meaning of your categories.

2. Find the value of each difference. Show your reasoning.

   a. $1 - \frac{5}{8}$

   b. $2 - \frac{7}{8}$

   c. $3 - \frac{9}{8}$