## Lesson 7: Fractions as Sums

- Let's write fractions as sums.


## 7.1: Barley Soup

Lin is learning to make barley soup using a family recipe. Here are some ingredients in the recipe:

- $\frac{3}{4}$ cup of barley
- $\frac{5}{4}$ cups of chopped celery
- $\frac{6}{4}$ cups of chopped carrots
- 1 cup of chopped onions
- $2 \frac{1}{4}$ cups of vegetable broth

1. Lin has only one measuring cup that measures $\frac{1}{4}$ cup. Show how Lin could use the cup to measure the right amount of each ingredient.

- Barley:
- Onions:
- Celery:
- Vegetable broth:
- Carrots:

2. Lin later found a $\frac{3}{4}$-cup measuring cup. Show how she could use the cups to measure the right amount of each ingredient.

- Barley:
- Onions:
- Celery:
- Vegetable broth:
- Carrots:


## 7.2: Sums in Fifths and Thirds

1. Use different combinations of fifths to make a sum of $\frac{9}{5}$.
a. $\frac{9}{5}=$ $\qquad$ $+$ $\qquad$
$\qquad$ $+$ $\qquad$ $+$ $\qquad$
b. $\frac{9}{5}=$ $\qquad$ $+$ $\qquad$ $+$ $\qquad$ $+$ $\qquad$
c. $\frac{9}{5}=$ $\qquad$ $+$ $\qquad$ $+$
d. $\frac{9}{5}=$ $\qquad$ $+$ $\qquad$
2. Write different ways to use thirds to make a sum of $\frac{4}{3}$. How many can you think of? Write an equation for each combination.
3. Is it possible to write any fraction with a denominator of 5 as a sum of other fifths? Explain or show your reasoning.
