Unit 3, Lesson 17

Sums of Tenths and Hundredths

Let's add more tenths and hundredths.

Warm-up

Which Three Go Together: Tenths and Hundredths

Which 3 go together?

A. $\frac{48}{100}$

B. $\frac{8}{10}$

C. $\frac{120}{100}$

D. $\frac{70}{100}$

Activity 1

Card Sort: Less than, Equal to, or Greater than 1?

Your teacher will give you a set of cards.

1. Sort the cards, based on whether the value of each expression is less than 1, equal to 1, or greater than 1.

   After you sort the cards, make a quick list of which expressions you have in each group.

2. Visit the sorted collection of another group.
   - Did they sort the cards the same way?
   - Select 1–2 cards that you have a question about or whose placement you disagree with.
   - Leave a note for the group members to discuss.

3. Return to your collection.
   - Discuss any notes that are left for your group, or revise your sorting decision, based on what you learned from another group.
   - Record the expressions here.

less than 1	equal to 1	greater than 1

Activity 2

What's Missing?

1. Each equation has an unknown fraction in hundredths. Find the fraction that makes each equation true.

   a. $\frac{10}{100} + \_\_\_\_\_ = \frac{30}{100}$

   b. $\_\_\_\_\_ + \frac{2}{10} = \frac{80}{100}$

   c. $\frac{7}{10} + \_\_\_\_\_ = \frac{94}{100}$

   d. $\frac{9}{100} + \_\_\_\_\_ = \frac{8}{10}$

   e. $\frac{16}{100} + \frac{4}{10} = \_\_\_\_\_$

   f. $\_\_\_\_\_ + \frac{14}{10} = \frac{172}{100}$

2. Each equation has an unknown fraction in tenths or hundredths. Find the fraction that makes each equation true.

a. $\frac{20}{100} + \_\_\_\_\_ = \frac{28}{100}$

b. $\frac{110}{100} + \_\_\_\_\_ = \frac{15}{10}$

c. $\frac{61}{100} + \frac{3}{10} = \_\_\_\_\_$

d. $\frac{9}{10} + \_\_\_\_\_ = \frac{170}{100}$

e. $\_\_\_\_\_ + \frac{72}{100} = \frac{102}{100}$

f. $\frac{15}{100} + \_\_\_\_\_ = 1\frac{55}{100}$

Activity 3

Fraction Action: Tenths, Hundredths

Play Fraction Action with 2 players:

- Shuffle the cards that your teacher gives you. Place the cards facedown in a stack.
- Each player turns over 2 cards and adds the fractions on the cards.
- Compare the sums. The player with the greater sum wins that round and keeps all 4 cards.
- If the sums are equivalent, each player turns over 1 more card and adds the value to their sum. The player with the greater new sum keeps all cards.
- The player with the most cards wins the game.

Play Fraction Action with 3 or 4 players:

- The player with the greatest sum of fractions wins the round.
- If 2 or more players have the greatest sum, each of those players turns over 2 more cards and finds their sum. The player with the greatest sum keeps all the cards.

Record any pair of fractions whose sum is challenging to find here.

_____ and _____ _____ and _____

_____ and _____ _____ and _____