Unit 7 Module 3
Fractions as Parts of a Whole and Parts of a Set
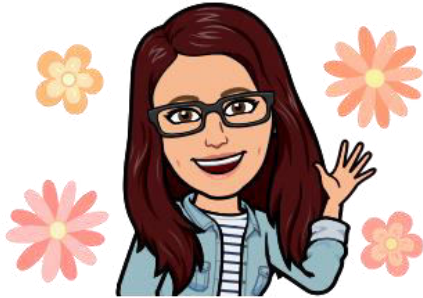# Session 1

Problem String-The Associative Property
Problems and Investigations-Fractions on a Ruler

Getting Ready-
- Construction paper (see preparation)

- Rulers, scissors, glue sticks
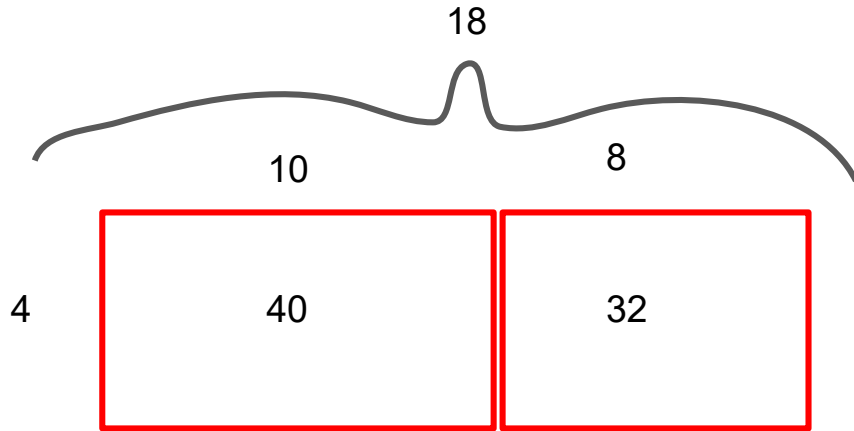
- Piece of chart paper

- Student journals

- Multiply using the associative property

- Identify equivalent fractions by comparing their sizes

The Associative Property Part 1

Date:

1. 4x18

18

10   8

4   40   32

4x18= (4x   )+(4x   )

4x10=
+ 4x 8=
4x 18=

2. 4x80

4 x (8x10)=

Or?

3. 4x800

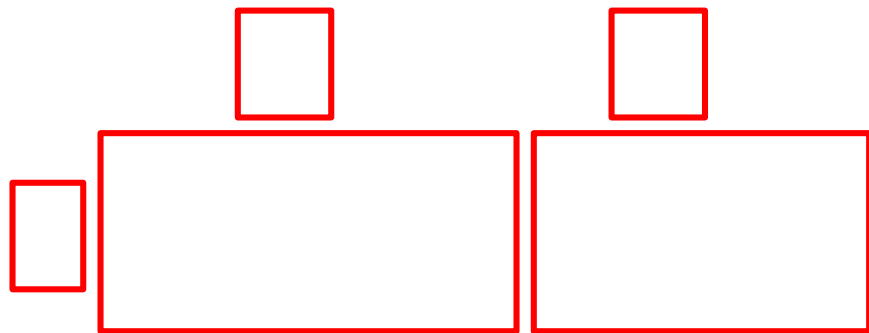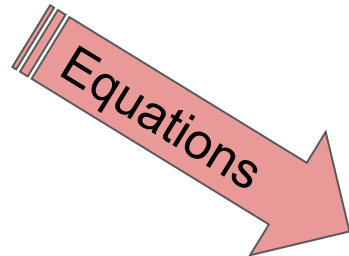4x (8x10)=

OR

PAUSE HERE
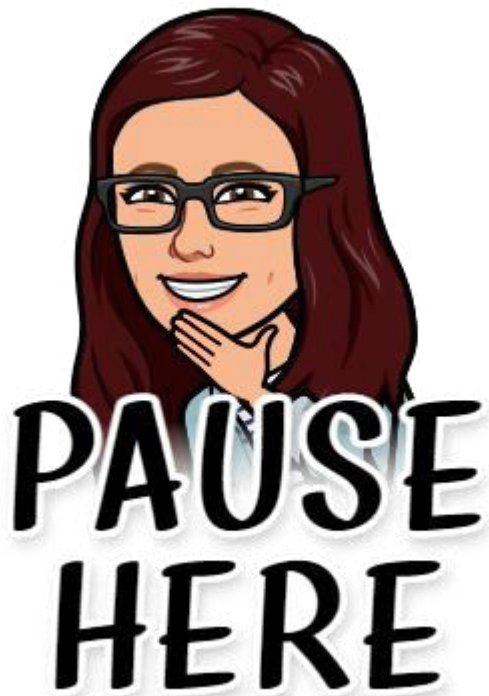
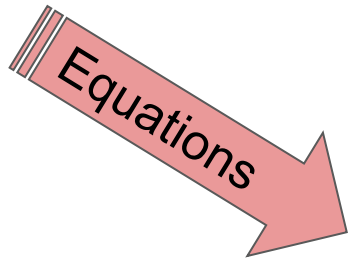Can anyone explain the associative property?

The Associative Property Part 2

4. 6x19

Equations

6. 6x90

Equations

Problems and Investigations-Fractions on a Ruler

1 foot = 12 inches

Measure 1 strip and label it
How could we divide this strip in half?

1 foot = 12 inches

$\frac{1}{2}$ foot = 6 inches $\frac{1}{2}$ foot = 6 inches

Draw a line in the middle of
your second strip and label.
How could we divide it into 3
equal parts?

Label your strip in thirds.
How can we divide it into 4 equal parts?

Ruler showing 1 through 12 inches.

1 foot = 12 inches

$\frac{1}{4}$ ft = 3 in | $\frac{1}{4}$ ft = 3 in | $\frac{1}{4}$ ft = 3 in | $\frac{1}{4}$ ft = 3 in

Label your strip in 4 equal parts. How can you divide it into 6 equal parts?

Label your strip in 6 equal parts. How can you divide it into 12 equal parts?
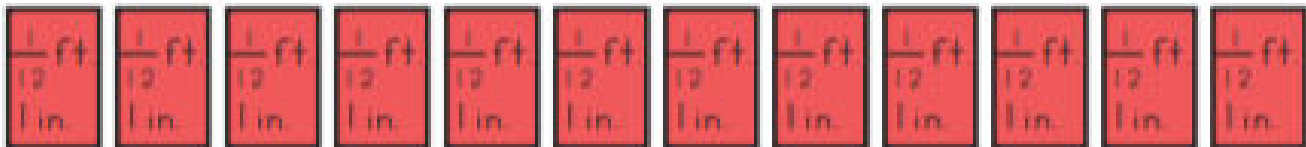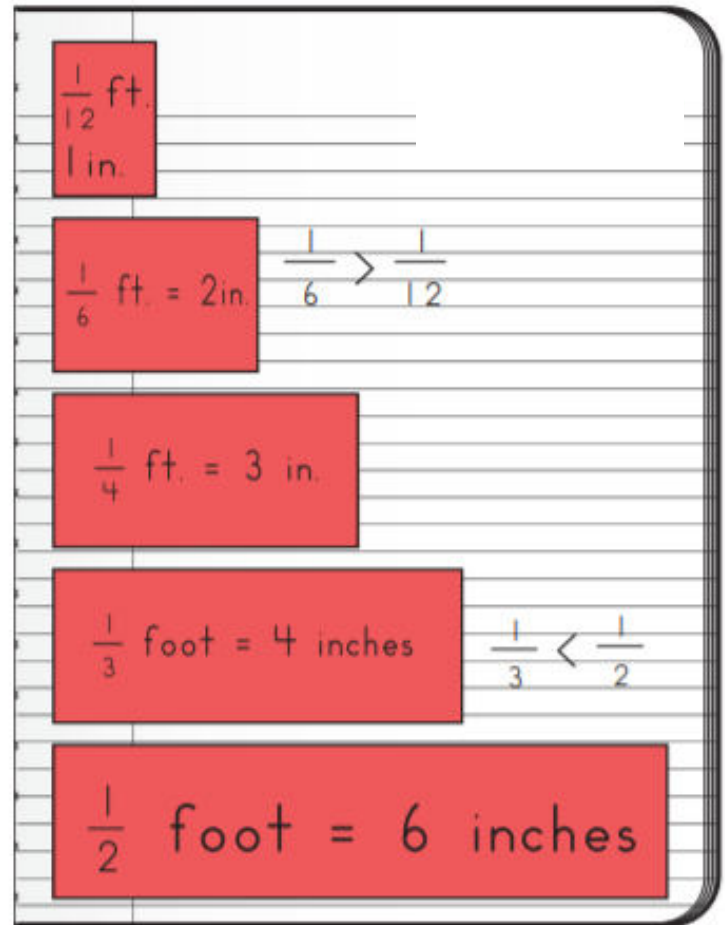
Label your last strip

In your journal

Write the Date
And the Title: **Fractions on a number line**
Let's order 1 of each fraction piece from least to greatest

What observations can you make about the relationships between the pieces?

$\frac{1}{12}$ ft.
1 in.

$\frac{1}{6}$ ft. = 2 in. $\frac{1}{6} > \frac{1}{12}$

$\frac{1}{4}$ ft. = 3 in.

$\frac{1}{3}$ foot = 4 inches $\frac{1}{3} < \frac{1}{2}$

$\frac{1}{2}$ foot = 6 inches

Work Places

5C Line 'Em Up

5D Division Capture

6A Tangram Polygons

6B Geoboard Polygons

6C Guess My Quadrilateral

6D Area or Perimeter

Daily Practice

SB 237– Sixty Seconds in a Minute

Home Connection

HC 131-132– Hours to Minutes