## Mrs. Faour/4th Grade Module 5-Lesson 5

Objective: Decompose unit fractions using area models to show equivalence.

**Lesson 5 Requirements:** 

Problem –Set page/Watch Video Fluency Practice /Watch Video Application Problem/Watch Video

**Review Class Note/use your math notebook** 

Homework page/Submit

Exit Ticket page/Submit

\*Use paper /pencil or problem-set pages to follow with the presenter.

Name \_\_\_\_\_ Date \_\_\_\_\_

- 1. Draw horizontal lines to decompose each rectangle into the number of rows as indicated. Use the model to give the shaded area as both a sum of unit fractions and as a multiplication sentence.
  - a. 2 rows





## b. 2 rows



## c. 4 rows



2. Draw area models to show the decompositions represented by the number sentences below. Represent the decomposition as a sum of unit fractions and as a multiplication sentence.

a. 
$$\frac{1}{2} = \frac{3}{6}$$
 b.  $\frac{1}{2} = \frac{4}{8}$ 

c. 
$$\frac{1}{2} = \frac{5}{10}$$
 d.  $\frac{1}{3} = \frac{2}{6}$ 

e. 
$$\frac{1}{3} = \frac{4}{12}$$
 f.  $\frac{1}{4} = \frac{3}{12}$ 

3. Explain why  $\frac{1}{12} + \frac{1}{12} + \frac{1}{12}$  is the same as  $\frac{1}{4}$ .







equals the area of  $\frac{1}{4}$  of the model so the fractions are equal.

Name \_\_\_\_\_ Date \_\_\_\_\_

**Exit Ticket** 

- 1. Draw horizontal lines to decompose each rectangle into the number of rows as indicated. Use the model to give the shaded area as both a sum of unit fractions and as a multiplication sentence.
  - a. 2 rows



b. 3 rows



- 2. Draw an area model to show the decomposition represented by the number sentence below. Represent the decomposition as a sum of unit fractions and as a multiplication sentence.
  - $\frac{3}{5} = \frac{6}{10}$

....

 Name
 Date

- 1. Draw horizontal lines to decompose each rectangle into the number of rows as indicated. Use the model to give the shaded area as both a sum of unit fractions and as a multiplication sentence.
  - a. 3 rows





b. 2 rows



c. 4 rows



2. Draw area models to show the decompositions represented by the number sentences below. Represent the decomposition as a sum of unit fractions and as a multiplication sentence.

a. 
$$\frac{1}{3} = \frac{2}{6}$$
 b.  $\frac{1}{3} = \frac{3}{9}$ 

c. 
$$\frac{1}{3} = \frac{4}{12}$$
 d.  $\frac{1}{3} = \frac{5}{15}$ 

e. 
$$\frac{1}{5} = \frac{2}{10}$$
 f.  $\frac{1}{5} = \frac{3}{15}$ 

3. Explain why  $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$  is the same as  $\frac{1}{3}$ .