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





Lesson 5:

Decompose unit fractions using area models to show equivalence.



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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 $\frac{1}{3}$.



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