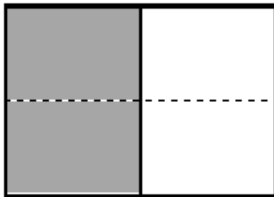Name _____   Date _____
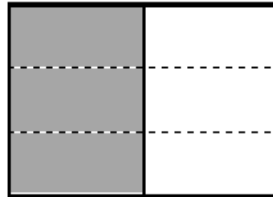
Each rectangle represents 1.

1. The shaded unit fractions have been decomposed into smaller units. Express the equivalent fractions in a number sentence using multiplication. The first one has been done for you.
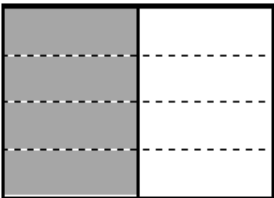
a.

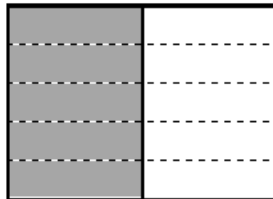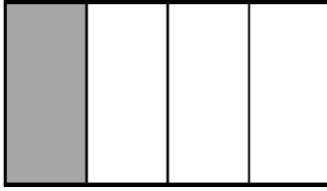$$\frac{1}{2} = \frac{1 \times 2}{2 \times 2} = \frac{2}{4}$$

b.

c.

d.

Lesson 7: Use the area model and multiplication to show the equivalence of two fractions.
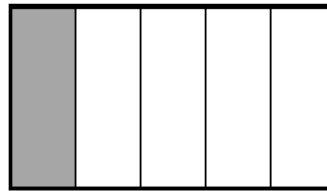
99

2. Decompose the shaded fractions into smaller units using the area models. Express the equivalent fractions in a number sentence using multiplication.
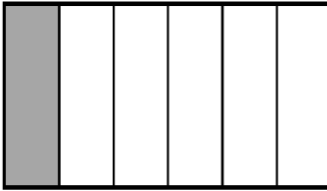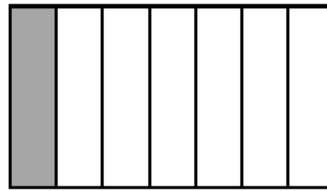
a.

b.

c.

d.

e. What happened to the size of the fractional units when you decomposed the fraction?

f. What happened to the total number of units in the whole when you decomposed the fraction?

3. Draw three different area models to represent 1 third by shading.
    Decompose the shaded fraction into (a) sixths, (b) ninths, and (c) twelfths.
    Use multiplication to show how each fraction is equivalent to 1 third.

    a.

    b.

    c.

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Lesson 7: Use the area model and multiplication to show the equivalence of two fractions.

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101