

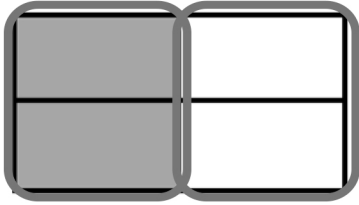
Name _____

Date _____

Each rectangle represents 1.

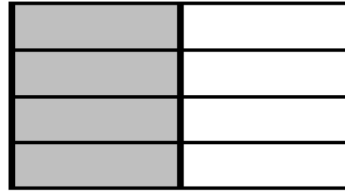
1. Compose the shaded fractions into larger fractional units. Express the equivalent fractions in a number sentence using division. The first one has been done for you.

a.

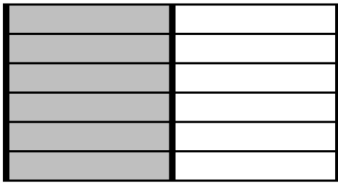


$$\frac{2}{4} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$$

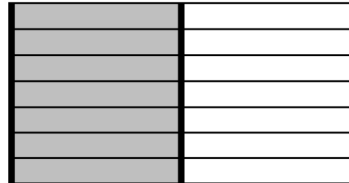
b.



c.

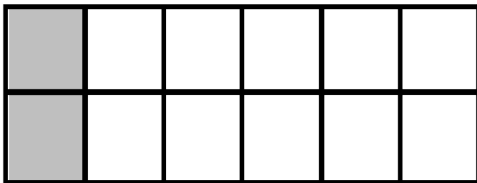


d.

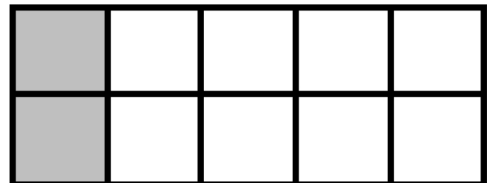


2. Compose the shaded fractions into larger fractional units. Express the equivalent fractions in a number sentence using division.

a.



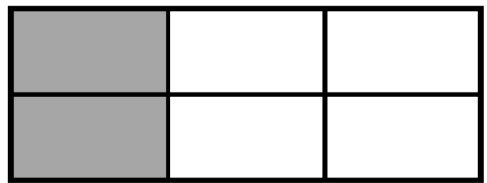
b.



c.



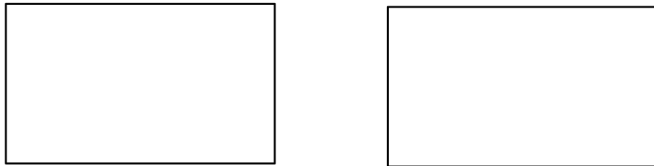
d.



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

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

3. a. In the first area model, show 4 eighths. In the second area model, show 6 twelfths. Show how both fractions can be composed, or renamed, as the same unit fraction.



- b. Express the equivalent fractions in a number sentence using division.

4. a. In the first area model, show 4 eighths. In the second area model, show 8 sixteenths. Show how both fractions can be composed, or renamed, as the same unit fraction.



- b. Express the equivalent fractions in a number sentence using division.

Answer Key

1.
 - a. Answer provided
 - b. Model shows $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$ or $\frac{4}{8} = \frac{4 \div 2}{8 \div 2} = \frac{2}{4}$
 - c. Model shows $\frac{6}{12} = \frac{6 \div 6}{12 \div 6} = \frac{1}{2}$ or $\frac{6}{12} = \frac{6 \div 3}{12 \div 3} = \frac{2}{4}$ or $\frac{6}{12} = \frac{6 \div 2}{12 \div 2} = \frac{3}{6}$
 - d. Model shows $\frac{7}{14} = \frac{7 \div 7}{14 \div 7} = \frac{1}{2}$
2.
 - a. Model shows $\frac{2}{12} = \frac{2 \div 2}{12 \div 2} = \frac{1}{6}$
 - b. Model shows $\frac{2}{10} = \frac{2 \div 2}{10 \div 2} = \frac{1}{5}$
 - c. Model shows $\frac{2}{8} = \frac{2 \div 2}{8 \div 2} = \frac{1}{4}$
 - d. Model shows $\frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$
 - e. The size of the fractional units increased.
 - f. The number of total units decreased.
3.
 - a. Area models prove $\frac{4}{8} = \frac{1}{2}$ and $\frac{6}{12} = \frac{1}{2}$
 - b. $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$, $\frac{6}{12} = \frac{6 \div 6}{12 \div 6} = \frac{1}{2}$
4.
 - a. Area models prove $\frac{4}{8} = \frac{1}{2}$ and $\frac{8}{16} = \frac{1}{2}$
 - b. $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$, $\frac{8}{16} = \frac{8 \div 8}{16 \div 8} = \frac{1}{2}$