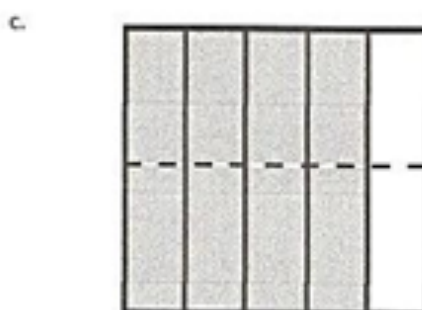
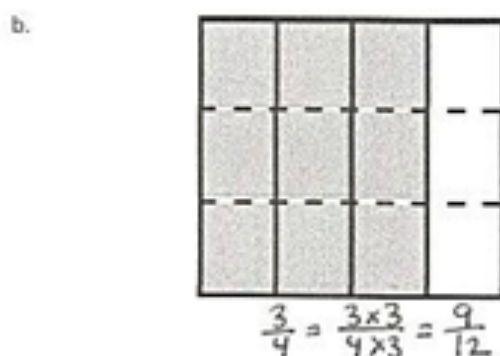
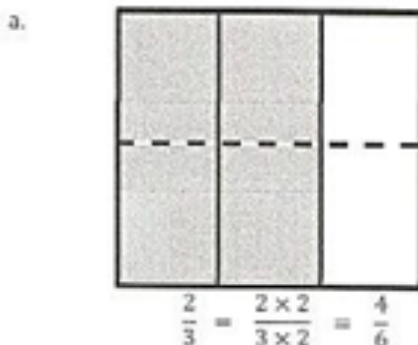


Name Jack

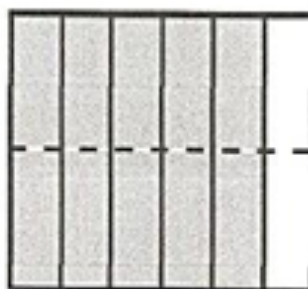
Date _____

Each rectangle represents 1 whole.

1. The shaded 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.



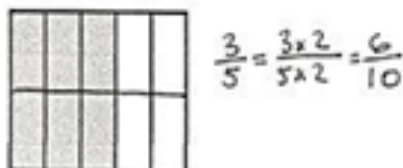
d.
$$\frac{4}{5} = \frac{4 \times 2}{5 \times 2} = \frac{8}{10}$$



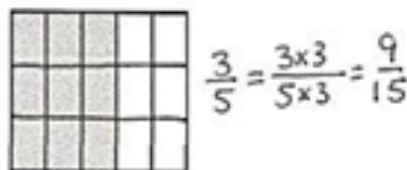
$$\frac{5}{6} = \frac{5 \times 2}{6 \times 2} = \frac{10}{12}$$

2. Decompose the shaded fractions into smaller units, as given below. Express the equivalent fractions in a number sentence using multiplication.

a. Decompose into tenths.



b. Decompose into fifteenths.



3. Draw area models to prove that the following number sentences are true.

a. $\frac{2}{5} = \frac{4}{10}$



b. $\frac{2}{3} = \frac{8}{12}$



c. $\frac{3}{6} = \frac{6}{12}$



d. $\frac{4}{6} = \frac{8}{12}$



4. Use multiplication to rename each fraction below.

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

b. $\frac{4}{5} = \frac{4 \times 3}{5 \times 3} = \frac{12}{15}$

c. $\frac{7}{6} = \frac{7 \times 2}{6 \times 2} = \frac{14}{12}$

d. $\frac{12}{7} = \frac{12 \times 2}{7 \times 2} = \frac{24}{14}$

5. Determine which of the following are true number sentences. Correct those that are false by changing the right hand side of the number sentence.

a. $\frac{4}{3} = \frac{8}{9}$ false $\frac{4}{3} = \frac{4 \times 2}{3 \times 2} = \frac{8}{6}$

b. $\frac{5}{4} = \frac{10}{8}$ true $\frac{5}{4} = \frac{5 \times 2}{4 \times 2} = \frac{10}{8}$

c. $\frac{4}{5} = \frac{12}{10}$ false $\frac{4}{5} = \frac{4 \times 3}{5 \times 3} = \frac{12}{15}$

d. $\frac{4}{6} = \frac{12}{18}$ true $\frac{4}{6} = \frac{4 \times 3}{6 \times 3} = \frac{12}{18}$