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. \[ \frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2} \]

   c. \[ \frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2} \]

   d. \[ \frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2} \]

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

   a. \[ \frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3} \]

   b. \[ \frac{2}{8} = \frac{2 \div 2}{8 \div 2} = \frac{1}{4} \]

   c. \[ \frac{2}{10} = \frac{2 \div 2}{10 \div 2} = \frac{1}{5} \]

   d. \[ \frac{2}{12} = \frac{2 \div 2}{12 \div 2} = \frac{1}{6} \]
e. What happened to the size of the fractional units when you composed the fraction?

When I composed the fraction,
the size of the fractional units became larger.

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

There were fewer total units in the whole
when I composed the fraction.

3. a. In the first area model, show \(\frac{2}{6}\). In the second area model, show \(\frac{3}{9}\). Show how both fractions can be renamed as the same unit fraction.

\[\frac{2}{6} = \frac{1}{3}\]

\[\frac{3}{9} = \frac{1}{3}\]

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

\[\frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}\]

\[\frac{3}{9} = \frac{3 \div 3}{9 \div 3} = \frac{1}{3}\]

4. a. In the first area model, show \(\frac{2}{8}\). In the second area model, show \(\frac{3}{12}\). Show how both fractions can be composed, or renamed, as the same unit fraction.

\[\frac{2}{8} = \frac{1}{4}\]

\[\frac{3}{12} = \frac{1}{4}\]

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

\[\frac{2}{8} = \frac{2 \div 2}{8 \div 2} = \frac{1}{4}\]

\[\frac{3}{12} = \frac{3 \div 3}{12 \div 3} = \frac{1}{4}\]