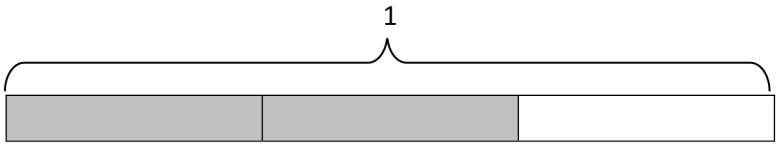
Name _____ Date _____

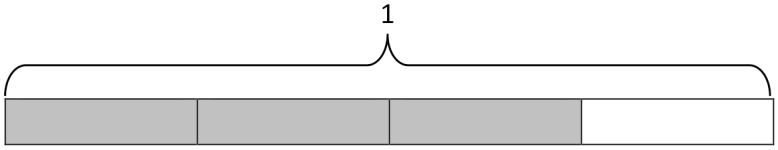
1. Decompose each fraction modeled by a tape diagram as a sum of unit fractions. Write the equivalent multiplication sentence. The first one has been done for you.

a.

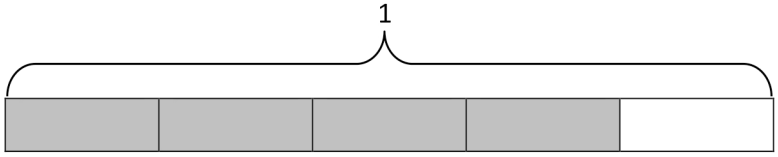


$\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ $\frac{2}{3} = 2 \times \frac{1}{3}$

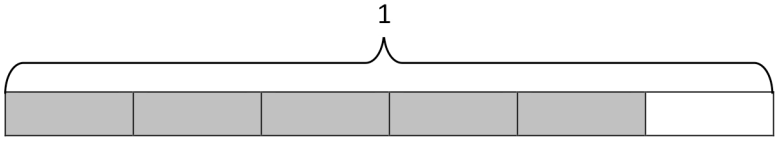
b.



c.

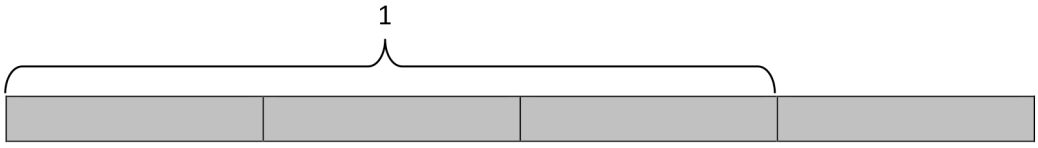


d.

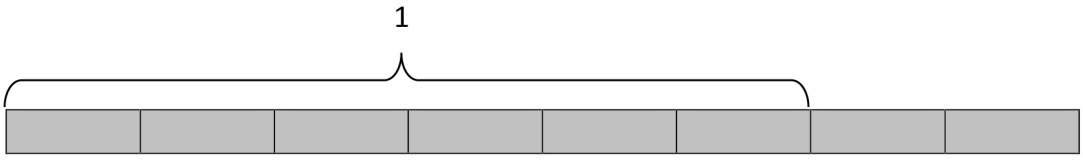


2. Write the following fractions greater than 1 as the sum of two products.

a.



b.



3. Draw a tape diagram and record the given fraction's decomposition into unit fractions as a multiplication sentence.

a. $\frac{3}{5}$

b. $\frac{3}{8}$

c. $\frac{5}{9}$

d. $\frac{8}{5}$

e. $\frac{12}{4}$

Answer Key

1. a. Answer provided.

   b. $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$; $\frac{3}{4} = 3 \times \frac{1}{4}$

   c. $\frac{4}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$; $\frac{4}{5} = 4 \times \frac{1}{5}$

   d. $\frac{5}{6} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$; $\frac{5}{6} = 5 \times \frac{1}{6}$

2. a. $\frac{4}{3} = \left(3 \times \frac{1}{3}\right) + \left(1 \times \frac{1}{3}\right)$

   b. $\frac{8}{6} = \left(6 \times \frac{1}{6}\right) + \left(2 \times \frac{1}{6}\right)$

3. a. Tape diagram models number sentence; $\frac{3}{5} = 3 \times \frac{1}{5}$

   b. Tape diagram models number sentence; $\frac{3}{8} = 3 \times \frac{1}{8}$

   c. Tape diagram models number sentence; $\frac{5}{9} = 5 \times \frac{1}{9}$

   d. Tape diagram models number sentence $\frac{8}{5} = 8 \times \frac{1}{5}$

   e. Tape diagram models number sentence; $\frac{12}{4} = 12 \times \frac{1}{4}$