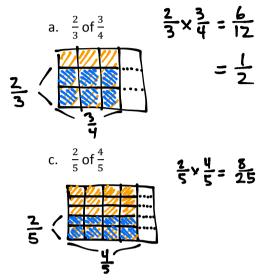
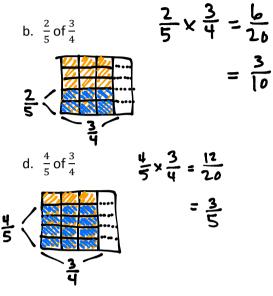
Name \_\_\_\_\_ Date \_\_\_\_\_

1. Solve. Draw a model to explain your thinking. Then write a multiplication sentence.



- 2. Multiply. Draw a model if it helps you.
  - a.  $\frac{5}{6} \times \frac{3}{10} = \frac{5 \times 3}{2} \times \frac{102}{2} = \frac{1 \times 1}{2 \times 2} = \frac{1}{4}$



b. 
$$\frac{3}{4} \times \frac{4}{5} = \frac{3 \times \frac{3}{1}}{\frac{3}{1} \times 5}$$
  
=  $\frac{3 \times 1}{1 \times 5} = \frac{3}{5}$ 

t

c. 
$$\frac{5}{6} \times \frac{5}{8} = \frac{5 \times 5}{6 \times 8} = \frac{25}{48}$$
  
d.  $\frac{3}{4} \times \frac{5}{12} = \frac{3 \times 5}{4 \times 12.4} = \frac{5}{16}$ 

e. 
$$\frac{8}{9} \times \frac{3}{2} = \frac{4}{3} \frac{8 \times 3}{9 \times 2} = \frac{4}{3}$$
  
=  $\left[\frac{1}{3}\right]$   
f.  $\frac{3}{7} \times \frac{2}{9} = \frac{4}{7 \times 9} = \frac{2}{7 \times 9}$ 



115: N

Multiply non-unit fractions by non-unit fractions. 11/10/13



= 1

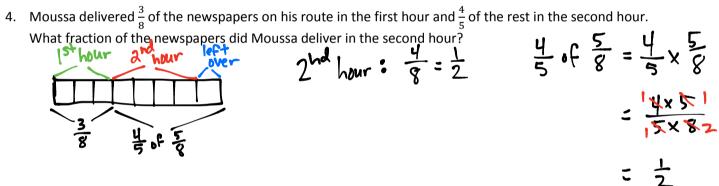
3. Every morning, Halle goes to school with a 1 liter bottle of water. She drinks  $\frac{1}{4}$  of the bottle before school starts and  $\frac{2}{2}$  of the rest before lunch. after school starte Lit hafre lunch?

a. What fraction of the bottle does Halle drink before tunch?  
a. What fraction of the bottle does Halle drink before tunch?  

$$\frac{2}{3}$$
 of  $\frac{3}{4} = \frac{2}{3} = \frac{1}{2}$   
 $\frac{2}{3}$  of  $\frac{3}{4} = \frac{2}{3} = \frac{1}{2}$   
 $\frac{2}{3}$  of  $\frac{3}{4} = \frac{2}{3} \times \frac{3}{4} = \frac{3}{3} \times \frac{3}{4} = \frac{3}{4} \times \frac{3}{4} = \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} = \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} = \frac{3}{4} \times \frac{3}{4}$ 

b. How many milliliters are left in the bottle at lunch?

$$\frac{1}{4}$$
 of a litter is left over  
 $\frac{1}{4} \times 1000 = \frac{250}{100}$  milliliters



5. Rose bought some spinach. She used  $\frac{3}{5}$  of the spinach on a pan of spinach pie for a party, and  $\frac{3}{4}$  of the remaining spinach for a pan for her family. She used the rest of the spinach to make a salad.