

Name: _____

Date: _____

Learning Goal 2.2

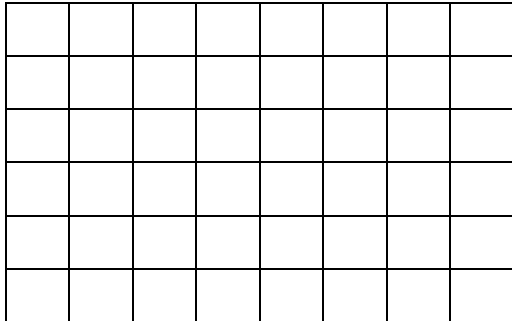
I can multiply and divide fractions.



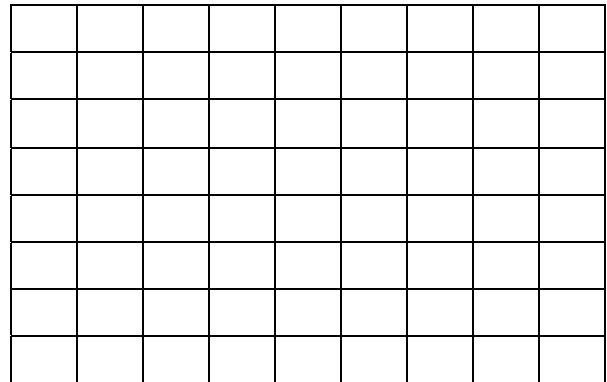
1

 $\frac{1}{2}$  $\frac{1}{2} \times \frac{1}{3}$ **Example** Model the following products.

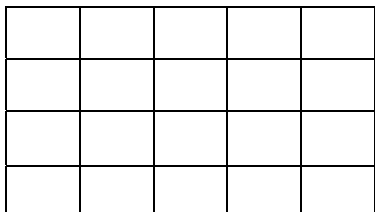
$$\frac{7}{8} \times \frac{5}{6}$$



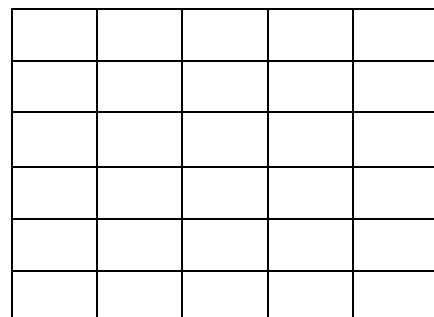
$$\frac{4}{9} \times \frac{6}{8}$$



$$\frac{4}{5} \times \frac{3}{4}$$



$$\frac{3}{5} \times \frac{5}{6}$$



Multiplying Proper Fractions Without using a Model

Example Find the product of the following fractions in lowest terms.

a. $\frac{8}{15} \times \frac{5}{6}$

b. $\frac{3}{5} \times \frac{2}{9}$

c. $\frac{5}{6} \times \frac{4}{5}$

d. $\frac{4}{21} \times \frac{7}{12}$

e. $\frac{27}{49} \times \frac{35}{36}$

f. $\frac{144}{256} \times \frac{128}{81}$

Example Three fifths of a school class is made up of girls. One third of the girls walk to school. What fraction of the class is made up of girls who walk to school?

Example Estimate the value of the product to the nearest half. Show your thinking.

a. $\frac{3}{5} \times \frac{1}{9}$

b. $\frac{4}{9} \times \frac{3}{7}$

c. $\frac{9}{11} \times \frac{7}{13}$