Name _____ Date _____

1. Multiply and model. Rewrite each expression as a number sentence with decimal factors. The first one is done for you.

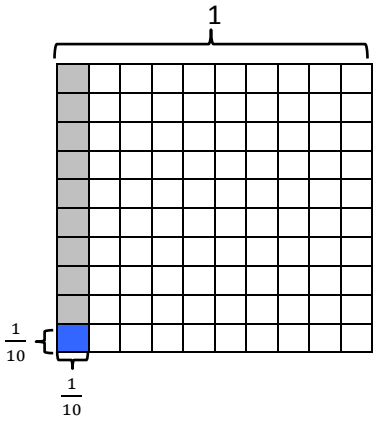
$0.6 \times 0.2 = 0.12$

a. $\frac{1}{10} \times \frac{1}{10}$

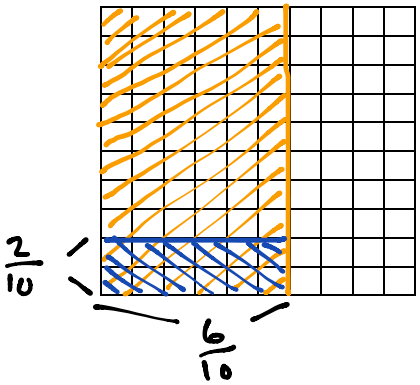
$= \frac{1 \times 1}{10 \times 10}$

$= \frac{1}{100}$

$0.1 \times 0.1 = 0.01$



b. $\frac{6}{10} \times \frac{2}{10} = \frac{6 \times 2}{10 \times 10} = \frac{12}{100}$

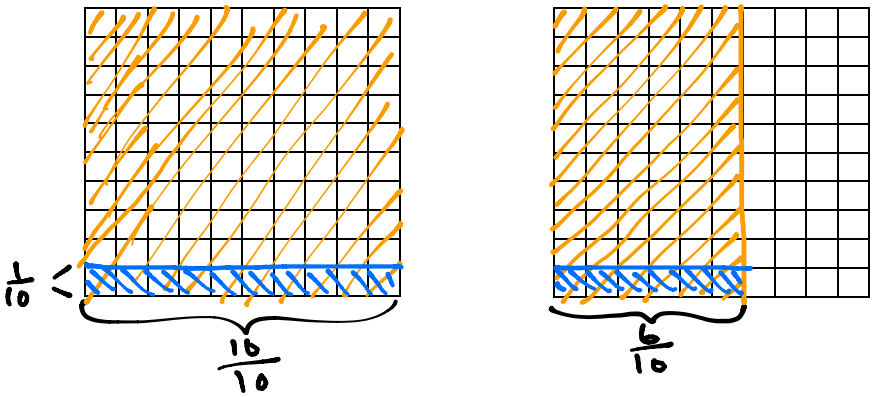


c. $\frac{1}{10} \times 1.6$

$= \frac{1}{10} \times \frac{16}{10}$

$= \frac{16}{100}$

$0.1 \times 1.6 = 0.16$



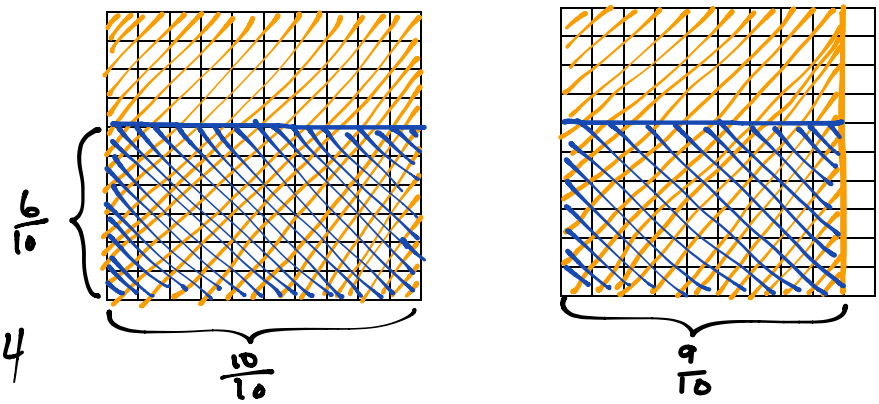
d. $\frac{6}{10} \times 1.9$

$= \frac{6}{10} \times \frac{19}{10}$

$= \frac{114}{100}$

$= 1\frac{14}{100}$

$0.6 \times 1.9 = 1.14$



2. Multiply. The first few are started for you.

a. $4 \times 0.6 = 2.4$

$= 4 \times \frac{6}{10}$

$= \frac{4 \times 6}{10}$

$= \frac{24}{10}$

$= 2.4$

b. $0.4 \times 0.6 = 0.24$

$= \frac{4}{10} \times \frac{6}{10}$

$= \frac{4 \times 6}{10 \times 10}$

$= \frac{24}{100}$

$= 0.24$

c. $0.04 \times 0.6 = 0.024$

$= \frac{4}{100} \times \frac{6}{10}$

$= \frac{4 \times 6}{100 \times 10}$

$= \frac{24}{1000}$

$= 0.024$

d. $7 \times 0.3 = 2.1$

$= 7 \times \frac{3}{10}$

$= \frac{7 \times 3}{10}$

$= \frac{21}{10} = 2.1$

e. $0.7 \times 0.3 = 0.21$

$= \frac{7}{10} \times \frac{3}{10}$

$= \frac{7 \times 3}{10 \times 10}$

$= \frac{21}{100}$

f. $0.07 \times 0.3 = 0.021$

$= \frac{7}{100} \times \frac{3}{10}$

$= \frac{7 \times 3}{100 \times 10}$

$= \frac{21}{1000} = 0.021$

g. $1.3 \times 5 = 6.5$

$= \frac{13}{10} \times 5$

$= \frac{13 \times 5}{10}$

$= \frac{65}{10} = 6.5$

h. $1.3 \times 0.5 = 0.65$

$= \frac{13}{10} \times \frac{5}{10}$

$= \frac{65}{100} = 0.65$

i. $0.13 \times 0.5 = 0.065$

$= \frac{13}{100} \times \frac{5}{10}$

$= \frac{13 \times 5}{100 \times 10}$

$= \frac{65}{1000} = 0.065$

3. Jennifer makes 1.7 liters of lemonade. If she pours 3 tenths of the lemonade in the glass, how many liters of lemonade are in the glass?

$0.3 \times 1.7 = \frac{3}{10} \times \frac{17}{10} = \frac{51}{100} = 0.51$

0.51 L is in the glass

4. Cassius walked 6 tenths of a 3.6 mile trail.

a. How many miles did Cassius have left to hike?

$0.6 \times 3.6 = \frac{6}{10} \times \frac{36}{10} = \frac{216}{100} = 2.16$

$3.6 = 3.60$

$3.60 - 2.16 = 1.44$

1.44 mi left to hike.

b. Cameron was 1.3 miles ahead of Cassius. How many miles did Cameron hike already?

$2.16 + 1.3$

$2.16 + 1.30 = 3.46$

Cameron hiked 3.46 miles.