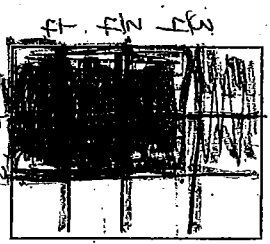


13 What is $\frac{3}{4}$ of $\frac{2}{3}$?

a. Fold the paper into thirds. Unfold it and shade two of the thirds.

b. Fold the paper into fourths the other way, with the new folds crossing your folds from Part a. Unfold the paper and double-shade three-fourths of the shaded part.

c. Record what your paper looks like.



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

Length of shaded rectangle: $\frac{3}{4}$ unit

Width of shaded rectangle: $\frac{1}{2}$ unit

Area of shaded rectangle: $\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$ square unit

Number sentence: $\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$

d. How much of the paper is double-shaded?

e. Fill in the blank: $\frac{3}{4}$ of $\frac{2}{3}$ is $\frac{1}{2}$

14 Write two different number stories that can be solved by multiplying $\frac{3}{4}$ by 8.

Draw a picture to represent each story.

Number story #1: There were 8 cookies on a plate.

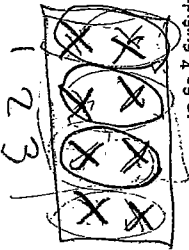
$\frac{3}{4}$ were eaten.

How many were eaten?

Number story #2: There were 8 basketballs for practice.

$\frac{3}{4}$ were used.

How many balls were needed?



$\frac{3}{4} \times 8 = 6$

$\frac{3}{4} \times 8 = \frac{24}{4} = 6$

Use the fraction multiplication algorithm

15 $\frac{2}{3} * \frac{5}{6} = \frac{10}{18}$

17 $\frac{5}{12} * \frac{2}{3} = \frac{10}{36}$

Write a number model using a letter for the unknown. Solve, showing your solution strategy with representations or drawings. Summarize your work with a division number model. Check your answer using multiplication and write a number sentence to show how you checked.

18 Ben has $\frac{1}{2}$ of a loaf of bread. If he and his 3 friends share the $\frac{1}{2}$ loaf equally, how much of the whole loaf will each person get?

Number model: $\frac{1}{2} \div 4 = b$



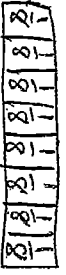
$20 \div 4 = 5$

Each person will get $\frac{1}{8}$ loaf of bread.

$\frac{1}{8} \times 4 = \frac{4}{8} = \frac{1}{2}$

19 Charity is packing a 2-pound container of trail mix into bags for a camping trip. Each bag holds $\frac{1}{8}$ pound of trail mix. If Charity uses all 2 pounds of trail mix, how many $\frac{1}{8}$ -pound bags will she have?

Number model: $2 \div \frac{1}{8} = b$



Charity will have 16 $\frac{1}{8}$ pound bags.

$2 \div \frac{1}{8} = 16$

$16 \times \frac{1}{8} = 2$

$\frac{16}{1} \times \frac{1}{8} = \frac{16}{8} = 2$