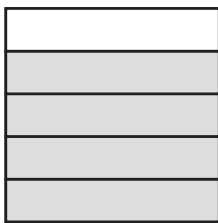
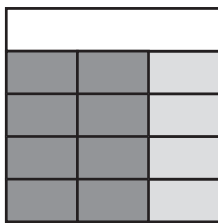


Canceling in fraction multiplication

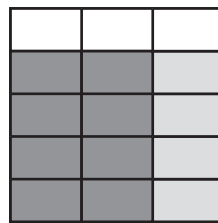
Zachary had $\frac{4}{5}$ of a liter of juice. Zachary drank $\frac{2}{3}$ of his juice. What fraction of a liter of juice did Zachary drink?



$$\frac{4}{5}$$



$$\frac{2}{3} \text{ of } \frac{4}{5}$$



$$\frac{2}{3} \text{ of } \frac{4}{5} = \frac{8}{15}$$

Zachary drank $\frac{2}{3}$ of $\frac{4}{5}$ of a liter of juice.

$$\frac{2}{3} \text{ of } \frac{4}{5} = \frac{2}{3} \times \frac{4}{5} = \frac{2 \times 4}{3 \times 5} = \frac{8}{15}$$

To multiply fractions, multiply the numerators (tops) and multiply the denominators (bottoms).

Solve the following.

1. $\frac{4}{7}$ of $\frac{8}{9} =$

2. $\frac{6}{11} \times \frac{4}{5} =$

3. $\frac{3}{5}$ of $\frac{6}{7} =$

4. $\frac{9}{10} \times \frac{3}{13} =$

Sometimes we can cancel to simplify. We can cancel a 7 from the 21 and the 35 in the next example:

$$\frac{\overset{3}{\cancel{21}}}{50} \times \frac{1}{\underset{5}{\cancel{35}}} = \frac{3 \times 1}{50 \times 5} = \frac{3}{250}$$

5. $\frac{10}{13} \times \frac{2}{15} =$

6. $\frac{7}{55} \times \frac{33}{100} =$

7. A recipe calls for $\frac{2}{3}$ of a cup of flour. To make $\frac{3}{4}$ of the recipe, what fraction of a cup of flour should you use? Show your work.

Answer: _____

8. One serving of cereal has $\frac{3}{4}$ of your daily value of vitamin B. You ate $\frac{2}{3}$ of a serving. What fraction of your daily value of vitamin B did you get? Show your work.

Answer: _____

9. One bottle of brand A juice has $\frac{4}{5}$ of your daily value of vitamin C. You drank $\frac{3}{4}$ of a bottle. What fraction of your daily value of vitamin C did you get? Show your work.

Answer: _____

10. Mr. Smith grows flowers and vegetables in his garden. $\frac{3}{5}$ of his garden is planted with vegetables. $\frac{1}{6}$ of the vegetable garden is planted with okra. What fraction of Mr. Smith's garden is planted with okra? Show your work.

Answer: _____