

When do we multiply fractions to solve a story problem?  
When do we add or subtract instead?

Remember that

- $\frac{1}{5} \times \frac{3}{5}$  means  $\frac{1}{5}$  of  $\frac{3}{5}$
- $\frac{3}{5} + \frac{1}{5}$  means  $\frac{3}{5}$  and another  $\frac{1}{5}$  more
- $\frac{3}{5} - \frac{1}{5}$  means  $\frac{3}{5}$  take away  $\frac{1}{5}$

Some of the next problems are solved by adding, some are solved by subtracting, some are solved by multiplying, and some are solved in other ways. Solve each of the next problems.

1. There is  $\frac{3}{5}$  of a liter of juice in a container. Someone pours another  $\frac{1}{5}$  of a liter of juice into the container. Now how many liters of juice are in the container?

Answer: \_\_\_\_\_

2. There is  $\frac{3}{5}$  of a liter of juice in a container. Someone drinks  $\frac{1}{5}$  of the juice in the container. How many liters of juice did the person drink?

Answer: \_\_\_\_\_

3. There is  $\frac{3}{5}$  of a liter of juice in a container. Someone pours out  $\frac{1}{5}$  of a liter of juice from the container. Now how many liters of juice are the container?

Answer: \_\_\_\_\_

4. There is  $\frac{3}{5}$  of a liter of juice in a container. The juice will be poured into smaller containers that each contain  $\frac{1}{5}$  of a liter of juice. How many of the smaller containers can be filled with juice?

Answer: \_\_\_\_\_

5. There is  $\frac{3}{5}$  of a liter of juice in a container. The container is  $\frac{1}{5}$  full. How many liters of juice does the full container hold?

Answer: \_\_\_\_\_

6. There was  $\frac{3}{4}$  of a gallon of gas in a lawnmower. During mowing,  $\frac{1}{4}$  of the gas in the lawnmower was used. How many gallons of gas were used during mowing?

Answer: \_\_\_\_\_

7. There was  $\frac{3}{4}$  of a gallon of gas in a lawnmower. During mowing,  $\frac{1}{4}$  of a gallon of gas was used. How many gallons of gas are left in the lawnmower?

Answer: \_\_\_\_\_

8. There was  $\frac{3}{4}$  of a gallon of gas in a lawnmower. Another  $\frac{1}{4}$  of a gallon of gas was poured into the lawnmower. How many gallons of gas are in the lawnmower now?

Answer: \_\_\_\_\_

9. There was  $\frac{3}{4}$  of a gallon of gas in a lawnmower. The gas from the lawnmower was poured into containers that each hold  $\frac{1}{4}$  of a gallon. How many containers were needed to hold all the gas that was in the lawnmower?

Answer: \_\_\_\_\_