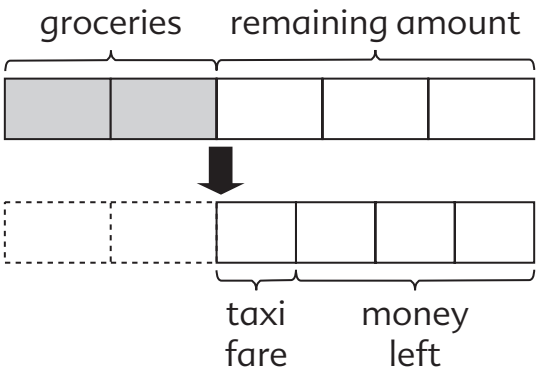
Multiplication and Division of Fractions

Unlike the addition and subtraction of fractions, the denominators of fractions need not be the same when we multiply or divide them.

1. Tom has \$50. He spends $\frac{2}{5}$ of the money on groceries and $\frac{1}{4}$ of the remaining amount for the taxi fare back home. How much money does he have left?

Method 1:



$1 - \frac{2}{5} = \frac{3}{5}$

$\frac{1}{4} \times \frac{3}{5} = \frac{3}{20}$

$\frac{3}{20} \times \$50 = \$7.50$

$\frac{2}{5} \times \$50 = \$20$

$\$50 - \$20 - \$7.50 = \$22.50$

Tom has \$22.50 left.

2. In a factory, 10 lb of crackers are produced in half a day. These are packed into $\frac{1}{4}$ lb packages.

   (a) The factory is in operation for $5\frac{1}{2}$ days in a week. Find the total amount of crackers produced in a week.

   (b) Find the number of packages of crackers produced in a week.

3. Mrs. Baker has $12\frac{4}{5}$ m of ribbon. She cuts off $\frac{1}{5}$ m which is frayed.

   (a) Find the length of ribbon left.

   (b) She cuts the remaining length of ribbon into 6 equal pieces. Find the length of each piece of ribbon.

Name: _____ Class: _____ Date: _____

Exercise 1 : Mean

1. Priscilla rolls a die 10 times and records the number that appears on the die each time. The results are as follows:

   2, 1, 3, 4, 2, 1, 2, 1, 4, 5

   Find the mean.

2. The following data shows the average daily temperature (°C) in a town for the month of June.

25	26	27	24	22	24	26	24	24	25
24	24	25	25	25	25	26	25	24	30
26	26	30	25	23	23	22	25	25	25

   Find the mean temperature for the month.

3. The table below shows the number of pets a class of 25 students owned.

Number of pets	0	1	2	3	4
Number of students	11	5	4	3	2

   Find the mean number of pets owned.