## 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:



Tom has $\$ 22.50$ left.
2. In a factory, 10 lb of crackers are produced in half a day. These are packed into $\frac{1}{4} \mathrm{lb}$ 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 $12 \frac{4}{5} \mathrm{~m}$ of ribbon. She cuts off $\frac{1}{5} \mathrm{~m}$ 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.

## 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 $\left({ }^{\circ} \mathrm{C}\right)$ 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.

