

Chapter – 8. Fractions

Auditory

1. The total number of parts in which the apple is divided = 6

Number of parts of the apple eaten by Rakesh = 3

Fraction of the apple eaten by Rakesh = $\frac{\text{Number of parts of apple eaten by Rakesh}}{\text{The total number of parts in which the apple is divided}} = \frac{3}{6} = \frac{1}{2}$.

Thus, Rakesh ate $\frac{1}{2}$ part of the apple.

2. Total number of parts of the apple that is eaten = 3 parts by Rakesh + 2 parts by Suman = $3 + 2 = 5$

Number of parts of the apple that is left = The total number of parts in which the apple is divided – Number of part eaten by Rakesh and Suman = $6 - 5 = 1$

Fraction of apple that is left = $\frac{\text{Part of the apple that is left}}{\text{The total number of parts in which the apple is divided}} = \frac{1}{6}$

$\frac{1}{6}$ of the apple is left.

Word Problems

19. a. Total number of friends Ryan invited = 15

Number of friends who came to the party = 12

The fraction of friends who attended the party =

$\frac{\text{Number of friends who came to the party}}{\text{Total number of friends Ryan invited}} = \frac{12}{15} = \frac{4}{5}$.

$\frac{4}{5}$ of his friends attended the party.

- b. Total number of pages in the book = 40

The number of pages Reza has read = 33

The number of pages still left to be read = $40 - 33 = 7$

The fraction of the book left to be read = $\frac{\text{The number of pages still left to read}}{\text{Total number of pages in the book}} = \frac{7}{40}$.

$\frac{7}{40}$ of the book is still left to be read.

- c. Total number of homework questions to be done by Jas = 20

The number of questions completed by Jas = 13

The fraction of questions done by Jas = $\frac{\text{The number of questions completed by Jas}}{\text{Total number of homework questions}} = \frac{13}{20}$.

Solving better

4. Total number of pieces in the chocolate bar = 20

Number of pieces of the chocolate bar Ankit ate = 7

The number of pieces of chocolate bar left = $20 - 7 = 13$

The fraction of the chocolate bar still left in the packet =

$$\frac{\text{The number of pieces of chocolate bar left}}{\text{Total number of pieces of the chocolate bar}} = \frac{13}{20}$$

$\frac{13}{20}$ of the chocolate bar is still left in the packet.

Learning better

- N. 1. Total number of pages in the story = 24

Number of pages Ryan has read = 4

The number of pages still left to be read by Ryan = $24 - 4 = 20$ pages

Fraction of the story left to be read = $\frac{\text{The number of pages still left to be read by Ryan}}{\text{Total number of pages in the story}} = \frac{20}{24} = \frac{5}{6}$.

2. Total number of flowers = 24

One third of the flowers are marigold.

The number of marigold flower in the garden = $\frac{1}{3}$ of 24 = $24 \div 3 = 8$.

There are 8 marigold flowers in the garden.