CLASS NOTES

Class: V
Subject: Mathematics

Topic: Chapter 4
Parts and wholes
(Workbook)

G. Reduce the following fractions to their lowest terms:

(a) $\frac{36}{60}$ $\frac{3}{5}$

(b) $\frac{12}{72}$ $\frac{1}{6}$

(c) $\frac{25}{75}$ $\frac{1}{3}$

(d) $\frac{49}{63}$ $\frac{7}{9}$

(e) $\frac{44}{66}$ $\frac{4}{6} = \frac{2}{3}$

(f) $\frac{56}{72}$ $\frac{7}{9}$

(g) $\frac{55}{15}$ $\frac{11}{3}$

(h) $\frac{26}{65}$ $\frac{2}{5}$

FINDING FRACTION OF A NUMBER

A. Find:

(a) $\frac{1}{4}$ of 24

$\frac{1}{\cancel{4}_1} \times \overset{6}{\cancel{24}} = 6$

(b) $\frac{5}{8}$ of 64

$\frac{5}{\cancel{8}_1} \times \overset{8}{\cancel{64}} = 40$

(c) $\frac{5}{6}$ of 84

$\frac{5}{\cancel{6}_1} \times \overset{14}{\cancel{84}} = 70$

(d) $\frac{7}{9}$ of 81

$\frac{7}{\cancel{9}_1} \times \overset{9}{\cancel{81}} = 63$

(e) $\frac{2}{3}$ of 90

$\frac{2}{\cancel{3}_1} \times \overset{30}{\cancel{90}} = 60$

(f) $\frac{3}{5}$ of 75

$\frac{3}{\cancel{5}_1} \times \overset{15}{\cancel{75}} = 45$

(g) $\frac{7}{11}$ of 33

$\frac{7}{\cancel{11}_1} \times \overset{3}{\cancel{33}} = 21$

(h) $\frac{6}{10}$ of 120

$\frac{6}{\cancel{10}_1} \times \overset{12}{\cancel{120}} = 72$

B. Find:

(a) $\frac{4}{9}$ of 18 km

$\frac{4}{\cancel{9}_1} \times \cancel{18}^{2}\,\text{km} = 8\,\text{km}$

(b) $\frac{5}{13}$ of Rs. 390

$\frac{5}{\cancel{13}} \times \text{Rs}\,\cancel{390}^{30} = \text{Rs}\,150$

(c) $\frac{5}{7}$ of 350 litres

$\frac{5}{\cancel{7}_1} \times \cancel{350}^{50}\,l = 250\,l$

(d) $\frac{1}{3}$ of a day (in hours)

$\frac{1}{\cancel{3}_1} \times \cancel{24}^{8}\,\text{hours} = 8\,\text{hours}$

(e) $\frac{3}{4}$ of a dozen

$\frac{3}{\cancel{4}_1} \times \cancel{12}^{3} = 9$

(f) $\frac{1}{12}$ of an hour (in minutes)

$\frac{1}{\cancel{12}_1} \times \cancel{60}^{5}\,\text{mins} = 5\,\text{mins}$

C. Express as fractions:

(a) 4 hrs as fraction of a day.

$\frac{4}{24} = \frac{1}{6}$

(b) 25 mins as fraction of an hour.

$\frac{25}{60} = \frac{5}{12}$

(c) 25 paise as fraction of a rupee.

$\frac{25}{100} = \frac{1}{4}$

(d) 200 ml as fraction of a litre.

$\frac{2\cancel{00}}{1\cancel{000}} = \frac{2}{10} = \frac{1}{5}$

(e) 15 seconds as fraction of a minute.

$\frac{15}{60} = \frac{1}{4}$

(f) 750 grams as fraction of a kilogram.

$\frac{75\cancel{0}}{100\cancel{0}} = \frac{75}{100} = \frac{3}{4}$

APPLICATION OF FRACTIONS

Solve the following:

(a) A movie theatre had 250 seats. $\frac{1}{5}$ of the seats are empty. How many seats are empty?

Solution :- $\frac{1}{5}$ of 250 seats

$= \frac{1}{5_1} \times \overset{50}{\cancel{250}} =$ 50 seats are empty

(b) Ravi had 72 stamps. $\frac{3}{8}$ of the stamps were new. How many stamps are new?

Solution :- $\frac{3}{8}$ of 72 stamps

$= \frac{3}{8_1} \times \overset{9}{\cancel{72}} =$ 27 stamps are new.

(c) A bakery baked 360 cakes on Sunday. $\frac{5}{6}$ of the cakes were sold. How many cakes were sold?

Solution :- $\frac{5}{6}$ of 360 cakes

$= \frac{5}{6_1} \times \overset{60}{\cancel{360}} =$ 300 cakes were sold

(d) Parvati had Rs. 650. She spent $\frac{3}{5}$ of it on books. How much money did she spend on books?

Solution :- $\frac{3}{5}$ of Rs 650

$= \frac{3}{5_1} \times$ Rs $\overset{130}{\cancel{650}} =$ 390 Rs spent on books.

(e) The capacity of a tank is 76 litres. $\frac{3}{4}$ of it is full of water. How much water is there in the tank?

Solution: $\frac{3}{4}$ of 76 l

$= \frac{3}{4_1} \times \overset{19}{\cancel{76}}$ l $=$ 57 l of water is there in the tank.

(f) An ice cream vendor sold 357 ice creams on a hot day. $\frac{4}{7}$ of them were orange bars. How many orange bars did he sell?

Sdution :- $\frac{4}{7}$ of 357 ice creams

$= \frac{4}{7_1} \times \overset{51}{\cancel{357}} =$ 204 orange bars he sold.