A cloth merchant sold 75½m of cloth on a day. He sold 36 3 m of cloth the next day.

He sold 
$$(75\frac{1}{2} + 36\frac{3}{4}) = (\frac{151}{2} + \frac{147}{4}) = (\frac{302 + 147}{4}) = \frac{449}{4}$$
  
=  $112\frac{1}{4}$  m of cloth in all in those two days.

Four biscuit suitcases weight 10 \frac{3}{4} kg, 12 \frac{1}{2} kg, 13 \frac{1}{5} kg and 14 1/4 kg respectively.

A porter carries all the suitcases.

The porter carp

The total weight carried by the porter is 
$$(10\frac{3}{4} + 12\frac{1}{2} + 13\frac{1}{5} + 14\frac{1}{4})$$
  
=  $(\frac{43}{4} + \frac{25}{2} + \frac{66}{5} + \frac{57}{4}) = (\frac{43 + 57 + 50}{4} + \frac{66}{5}) = (\frac{150}{4} + \frac{66}{5})$   
=  $(\frac{750 + 264}{20}) = \frac{1014}{20} = \frac{507}{10} = \frac{7}{10} =$ 

A rope is  $5\frac{2}{3}$  m =  $\frac{11}{3}$  m long. 3.

It is cut into two pieces.

The length of one piece is  $2\frac{1}{4}m = \frac{9}{4}m$ .

". The length of the other piece is 
$$\left(\frac{17}{3} - \frac{9}{4}\right) = \left(\frac{68 - 27}{12}\right) = \frac{41}{4}$$

$$= 10 \frac{1}{4} \text{ im}$$

He sells  $15\frac{3}{5}$   $l = \frac{78}{5}$  l of milk.

$$(20 - \frac{78}{5}) = (\frac{100 - 78}{5}) = \frac{22}{5} = 4\frac{2}{5}l$$
 of milk is left to be sold.

5. The price of 1 kg of sugar is Rs 
$$14\frac{1}{2} = Rs \cdot \frac{29}{2}$$
.

The price of 
$$3\frac{1}{4} = \frac{13}{4}$$
 kg of sugar will be  $(\frac{29}{2} \times \frac{13}{4})$   
=  $\frac{377}{8} = Rs. 47\frac{1}{8}$ 

6. 
$$5\frac{1}{9} = \frac{46}{9}$$
 L of petrol costs  $792$ .  
The cost of 1 L of petrol is  $(92 \div \frac{46}{9}) = (92 \times \frac{9}{46}) = 718$ 

7. The product of two fractional numbers is 
$$7\frac{1}{3} = \frac{22}{3}$$
.

One of them is  $1\frac{5}{6} = \frac{11}{6}$ .

... The other number is 
$$\left(\frac{22}{3} \div \frac{11}{6}\right) = \left(\frac{22}{3} \times \frac{6}{11}\right) = 4$$

8. A man sold 
$$\frac{1}{2}$$
 of his land.

He gave  $\frac{1}{2}$  of the remaining portion to his son and  $\frac{1}{3}$  of the balance to his daughter.

$$\therefore \left(\frac{1}{2} - \frac{1}{3}\right) = \left(\frac{3-2}{6}\right) = \frac{1}{6} \text{ of his land is left with him.}$$

The length of a line segment AB is \frac{2}{3} of the length of the line segment CD.

$$CD = 4cm$$
 · · · AB =  $4 \times \frac{2}{3} = \frac{8}{3} cm$ 

The length of a line segment Ef is \$\frac{3}{8}\$ of the length of the line segment AB.

AB : 
$$\frac{8}{3}$$
 cm  $\frac{1}{3}$  cm  $\frac{1}{3}$  = 1 cm

i. If of the length of CD is equal to the length of EF.

10. There are 800 students in a school.

1 of the students were absent on a day.

$$\therefore \left(\frac{800}{800} \times \frac{1}{40}\right) = 80 \text{ students were absent.}$$

11. There are 572 examinals.

3 of the total number of examinees appears in part 1.

3 appears in part 2.

The pest appear in both the parts.

in other bundle.

He gives 4 of first burndle and \$ of other burndle to Burnty.

:. Bushly received total =  $\{(\frac{480}{480} \times \frac{1}{4}) + (\frac{100}{300} \times \frac{1}{3})\}$ =  $\{120 + 100\} = Rs. 220$ 

He gives  $\frac{1}{3}$  of first bundle and  $\frac{1}{5}$  of other bundle to Binny.

.. Binny peceived total =  $\left\{ (\frac{160}{480} \times \frac{1}{3}) + (\frac{60}{300} \times \frac{1}{5}) \right\}$ =  $\left\{ 160 + 60 \right\} = Rs \cdot 220$ 

... Burty and Binny ; both neceived same amount of money.

13. Kanchan spends \frac{1}{2} of her money in one shop.

She spends \frac{1}{3} of remaining with on rickshow fare.

she speries  $(\frac{1}{3} \times \frac{1}{2}) = \frac{1}{6}$  on rockshow fare.

At the send, she has Rs 20.  $(\frac{1}{2} - \frac{1}{6} - \frac{2}{4})$ she had in the beginning =

... At the end, she has  $(\frac{1}{2} - \frac{1}{3}) = \frac{3-2}{6} = \frac{1}{6}$ 

 $\frac{1}{6} = 20$ , or  $1 = 20 \times 6 = 120$ 

.. She had in the beginning Rs. 120.

15. The distance between two stations is 25 km.

Adrain starts from one station and goes 15 km towards the other station.

: (25-15) = 10 km between the two stations remains to be covered.

of the distance between the two stations permains to be covered.

day he reads \frac{1}{3} of the remaining portion.

... The remaining portion is 
$$(1-\frac{1}{4}) = \frac{3}{4}$$

= 
$$\frac{2}{4} = \frac{1}{2}$$
 of a book.

If 100 pages are left to be nead, then (100×2)=200 pages are there in the book.

16. A train travels  $45\frac{1}{3}$  km every hour for the first  $3\frac{1}{2}$  hours after leaving a station.

The first  $3\frac{1}{2}$  hours, the train travels  $(\frac{136}{3} \times \frac{7}{2})$  km

It travels  $50\frac{1}{2}$  km every hour for the next  $2\frac{1}{2}$  hours.

... Next  $2\frac{1}{2}$  hours, the train travels  $(\frac{101}{2} \times \frac{5}{2})$  km =  $\frac{505}{4}$  km

o During the six hours, the train travels  $\left(\frac{476}{3} + \frac{505}{4}\right)$  km =  $\frac{\left(\frac{1904 + 1515}{12}\right)}{12}$  km =  $\frac{3419}{12} = 284 + \frac{11}{12}$  km

17. In a colony, Two-thinds of the vehicles are scooters, three-fourths of the remaining are cycles.

$$\therefore \left(1 - \frac{2}{3}\right) = \frac{1}{3} \text{ is the permaining.}$$

: (1/3×4) = 1/4 is are cycles

...  $\left\{1-\left(\frac{2}{3}+\frac{1}{4}\right)\right\} = \left\{1-\frac{5}{12}\right\} = \frac{7}{12}$  and of the vehicles are car.

- If the total number of vehicles is 4836. then there in the colony,  $(4836 \times \frac{1}{12}) = 2821$  are cares.
- 18. A smaller vessel can contain  $\frac{2}{25}$  of the amount of oil contained in the larger vessel.

Oil is taken out from the larger vessel ten times by filling the smaller vessel.