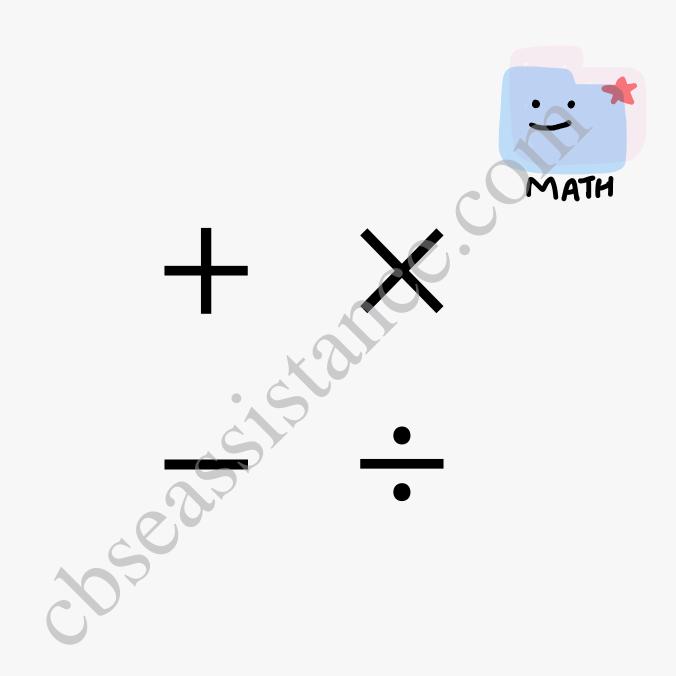
Comparing Quantities Ex. 7.1



$$\frac{28\cdot 1' = 28}{100} = \frac{28 \div 4}{100 \div 4} = \frac{7}{25} = 7:25$$

$$45.7 = \frac{45}{100} = \frac{45.5}{100.5} = \frac{9}{20}$$

$$12 \cdot l = \frac{12}{100} = 0.12$$

$$2.73 \times 100 = 273$$

$$25.1. \text{ of } x = 30$$
or $\frac{25^{1}}{100} \times x = 30$

$$\frac{3c}{4} = 30$$

or
$$x = 120$$

```
35.1. of x=7
or \frac{35}{100} \times x = 7
    x = \frac{7^{1} + 100}{35} = 20
er x = 20
: Number of matches played = 20
7. Jotal number of floats = 2000
0000 for 1.01 = straly seeve for selment
                                            =\frac{10}{100}\times2000
    Number of mongo plants = \frac{2\cdot 1\cdot \text{ of } 2000}{\frac{2}{188} \times 2088}
    Number of near plants = 3.1 \cdot \text{ of } 2000
= \frac{3}{100} \times 2000
     strolf relta for redmun lotal
                           =2000-(200+40+60)
                           = 2000 - 300
                               1700
     Alternate method
    Detal number of plants = 2000
Percentage of rose plants = 20
Percentage of mango plants = 2
```

```
Revientage of neem plants = 3
Percentage of other plants
                  = 100 - (10 + 2 + 3)
                   = 100 - 15
                   = 85
          stroly relate for reducer
               85.1. of 2000
             = \frac{85}{100} \times 2000
             = 1700
Let price of computer six months
back = \varEx
                 poice = 12·1. of ₹x
Reduced price = 3c - 12 x
                    100x-12x
                  - 588x
Reduced price = ₹ 39600
According to the question
        3600 450
   x = \frac{39600 \times 100}{100}
            888
  x= 45000
```

20

Drice of computer six months bock
- ₹ 45000
Alternate method
Alternate method bet price of computer six menths bock = \mathcal{\Pi} 100 Decrease in frice = 12.1. of \mathcal{\Pi} 100
bock = \ Loo
Decrease in price = 12.1. of \$ 100
= ₹12
Reduced price = 100-12
= + 88
If the reduced price is \$85, price sisc months back = \$100
month back = \$ 100
month bock = \$ 100 If the reduced price is \$1, price six months bock = \$\frac{1}{2} \frac{100}{88}
month bock = I 100
88
If the reduced him is \$ 39600, himse
Lia month back = 100, 39600 3600 450
If the reduced price is ∓ 39600 , price six months back = $\frac{100}{88} \times \frac{39600}{800} \times \frac{3600}{800} \times \frac{3600}$
- F45000
. Price of computer six months back = ₹ 45000
c ₹ 45000
Let total monthly income = \(\mathbb{E}\)x Amount of the total house rent = 201. of \(\mathbb{E}\)x
Amount short on house rent = 201. of Ex
= ₹ <u>20 x</u> 100
·
surtished as bladeward no traft truement
= 601. of Ex
= \frac{\xi_600c}{100}
100

doving =
$$x - \left(\frac{20x}{100} + \frac{60x}{100}\right)$$

= $x - \frac{80x}{100}$
= $\frac{100x - 80x}{100}$
= $\frac{20x}{100}$
= $\frac{20x}{100}$
= $\frac{20x}{1000}$
or $x = 2000x5$
or $x = 10000$
... Morthly income = £1000
Alternate method
but morthly income be £100
Amount whent on house rest = 20 ? of £100
= £20
Amount whent on household expenditure
= 60 ? of £100
= $\frac{1}{2}$ 60
Doving = $100 - (20 + 60)$
= $100 - 80$
= £20
If the soving is £20, monthly income=£100
= £100 - 80
= £20

If the soving is \$ 2000, monthly income = 2000×5 = \(\mathbb{E}\) Loooo . Monthly income = ₹ 10000 Let price of pulses = £ 100 Encrease in price = 30.1. of £ 100 = ₹30 Increased price = 100 +30 = ₹ 13o Let original consumption of pulses = 100 kg For Ξ 130, pulses consumed = 100 kg For Ξ 1, pulses consumed = $\frac{100}{130}$ kg For ₹ 100, Julies consumed = $\frac{100}{130} \times 100$ 13 : Reduction in consumption = 100 - 1000 1300 - 1000 $= \frac{1300 - 1000}{12}$ $=\frac{300}{1.3}$ kg Reventage reduction in consumption = $\frac{300}{100} \times \frac{1}{100}$

 $=\frac{300}{13}$ -1. ≈ 23.08 -1.

11.	Let income of Harrish = 700
	Let income of Harish = \(\frac{7}{200}\) i. Income of Ravi = 100 - 201. of 100
	= 100-20
	= ₹80
	Différence in income = 100-80
	= \Underset{20}
	= ₹20 Percentage by which Harish's income is more than that of Rovi = 20 ¹ × 100 ²⁵
	more than that of Rovi = 20t 10025
	-80×1
	= 25.1.
12.	Let total number of voter besc.
	Percentage of votes winning condidate
	not = 53
	Let total number of votes bex. Percentage of votes winning condidate 8st = 53 Number of votes apparent got = 31:1. of x = 31x 100
	= 31x
	Loo
	: According to the question
	31x - 31000
	Loo
er	$x = \frac{31000 \times 100}{}$
	3K 1
20	x= 100000
	: Detal number of votes = 100000
	Aunder of vetor vinning condidate
	got = 53.1. of 100000
	$= 53 \times 1000$
	LOS
	= 53000

```
... Winning margin = 53000 - 31000
    i. Dotal number of votes = 100000
Delining morgin = 22000
13. Let the population a year ago = x

Increase in population = \frac{6x}{100}
     Present population = x + \frac{6x}{100}
    Present population = 15900 (given)

\therefore According to the question

x + 6x = 15900
100
    \frac{106x}{100} = 15900
        x = \frac{15900 \times 100}{}
        <del>106</del> 1
    3c = 15000
    : Copulation a year ago = 15000
    Alternate method
    Let the population a year ago = 100
Increase in population = 6.1. of 100
    : Bresent population = 100+6
                                   = 106
```

	Bresent population = 15900 (given)
	Bresent population = 15900 (given) If the present population is 106, population
	a year age = 100
	If the present population is 1, population
	à year vago = 100
	\mathcal{L} 0 0
	If the present population is 15900, population a year ago = $\frac{100}{100} \times 15900$
	population a year ago = 100 x 12900
	1061
	-(1.5000)
	: Repulation a year ago = 15000
	7. 50/000-2 00012 000 (0.000 (
14.	10 t man love of the average in the stars
Ι (,	Let number of passengers in the terain
	lefore atotion A = x
	never top der vegnesson for rednin!
	Number of passengers who got down at station $A = 30\%$ of x
	<u>-300c</u>
	T00
	Remaining passengers = x - 30x
	Loo
	= 100x - 30x
	100
	$= \frac{70x}{100}$
	M. D
	the respective and respectively the security
	Number of possengers who got down at station $B = 50.1$. of $\frac{70x}{100}$
	$= \frac{5\cancel{8}}{\cancel{100}} \times \frac{\cancel{7}\cancel{8}}{\cancel{100}} \times = \frac{35\cancel{100}}{\cancel{100}}$
	T_{00}

```
Remaining passengers = \frac{70 \times 100}{100}
                                      \frac{35x}{100}
   Remaining passengers = 350 (given)
. According to the question
     <u>35x</u> = 350
100
350 \times 100
351
or x= 1000
   .. Number of favergers in the train
before station A = 1000
   Alternate method
Let number of passengers in the train
lefore station A = 100
   Number of passingers who got down at station A = 30.1. of 100
   Remaining fassengers = 100-30

= 70

Number of passengers who got down

of Ja 1.02 = 8 raitate to
                         =\frac{50^{1}}{100} \times 70^{35}
    Remaining passengers = 70-35
    Remaining passenger = 350 (giver)
```

	If the remaining possengers are 35,
	A restate eregreead pointing to sedown
	~ 1.00
	If the ermaining powenger is 1, number of possengers before station $A = \frac{100}{35}$
	possengers before station A = 100
	If the remaining passengers are 350, number of passengers before station A
	number of passengers before station A
	= 100 × 350 10
	351
	= 1000
	most alt in vegnesson for redmen.
	= 1000 .: Number of passengers in the train before station A = 1000
5.	Reople liking vicket = 60-1.
	Resple liking football = 30.1.
	Reople liking vicket = 60-1. Reople liking football = 30·1. Beople liking other games = [100-(60+30)]-1. =(100-90)·1.
	=(100-90).1.
	= 10.1.
	Total number of people in city = 50,00,000
	= 10.1. Jotal number of people in city = 50,00,000 No. of heaple liking cricket = 60 × 50000 gg
	= 30,00,000
	No. of people liking football= 30 x 5000000
	= 15,00,000
	No. of people liking other gamer = 10 x 500000
	= 5,00,000