

"percentage" —

Gianta
products

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$$10\% = \frac{10}{100} = \frac{1}{10}$$

$$5\% = \frac{5}{100} = \frac{1}{20}$$

$$2.5\% = \frac{2.5}{100} = \frac{1}{40}$$

10% 50 के लिए 5%

$$\frac{10}{50} \times 100 = 20\% \quad \text{more less}$$

(*) 1) A, B से किन्तु 1. अलग है? $\frac{A-B}{B} \times 100$ difference

2) A, B से किन्तु 1. अलग है? $\frac{B-A}{B} \times 100$

3) B, A से किन्तु 1. अलग है? $\frac{B-A}{A} \times 100$

4) B, A से किन्तु 1. अलग है? $\frac{A-B}{B} \times 100$

1. की 20% का दरवाज़ा

$$8.125 = 8\frac{1}{8}$$

$$8.125 \times 32$$

$$8 \times 1 \times 32 = 8 \times 4 = 32$$

$$7.375 = 7\frac{3}{8}$$

(*) Increment & decrement:

$$14\frac{2}{7}\% \text{ of } 4 = 1\frac{7}{8}$$

$$6.25\% \text{ of } 16 = \frac{1}{16} \times 16$$

$$158\frac{1}{3}\% - 1 + \frac{9}{7} = 18$$

$$225\% \text{ of } 200 = 200 \times 2.25$$

$$8\frac{1}{3}\% \text{ of } 12 = \frac{1}{12} \times 12 = 1$$

$$= 2 + \frac{1}{7} = \frac{9}{7}$$

$$7 \rightarrow 13$$

प्र० २ किसी नंबर $\frac{2}{3}$ का $66\frac{2}{3}\%$ प्र० $\frac{82}{3} \times 95$
 यहाँ पर्वती भूमि पाले हैं १० प्र०
 की कमी जरनी होगी।

$$66\frac{2}{3}\% =$$

$$\frac{2}{3} \times \frac{3}{5} \times 100 = 40\%$$

प्र० ३ $12\frac{1}{2}\%$ की जमीन की क्षमता किसी भूमि का १४ भूमि

$$\frac{1}{8} \times 14 = 1\frac{1}{2}$$

$$\frac{1}{8} \times 100 = 12\frac{1}{2}\% \text{ प्र०}$$

2) * Successive Increase :-
 (21.07)

(i) $41\% \rightarrow 45\% \rightarrow 48\% \rightarrow 52\% \rightarrow 55\% \rightarrow 58\% \rightarrow 61\% \rightarrow 64\% \rightarrow 67\% \rightarrow 70\%$

(ii) Remaining 4% \rightarrow (successive care)

(iii) decimal ($8\frac{1}{3}, 58\frac{1}{3}, 52\frac{1}{3}, \dots$)

$\frac{100}{7}$

50
3X1802

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(iv) रुपये में कमी का अनुपात - $\frac{100}{7}$ रुपये

जैसे $(A - B - C - D)$ (price)

(v) price \times consumption = expenditure

(vi) Area (volume) / $9 \times 9 = 9^2$

$\Rightarrow 20.1\% 14\frac{2}{7}\% 10\% 16\frac{2}{3}\% 1.1\%$ find net effect

$\frac{1}{5} \quad \frac{1}{7} \quad \frac{1}{6}$

5 6

~~2~~

~~6~~

~~5~~ ~~6~~

$$\frac{1}{5} \times 100 = 20\% \text{ - } 1$$

$\Rightarrow 20.1\% 14\frac{2}{7}\% 10\% 16\frac{2}{3}\% 1.1\%$ net = 20.1% ~~8/6~~

-5 6

~~2~~ ~~6~~

~~16~~ ~~9~~

$$2 = 20.1 - 6$$

5 6

$$x = \frac{1}{5} \times 100$$

$$x = 20.1 - 6$$

$$\frac{15}{100} \times 100 = 15$$

$$\frac{15}{100} \times 100 = 15$$

100 115

20 23

$$\frac{5}{1200} \times 100 = 18$$

$$\frac{18}{20} \times 100 = 90$$

90

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Q

$$1. - \left(\frac{x+y+z}{100} \right)$$

increment = +
decrement = -

Q

$$15\% + 20\% = ?$$

$$1. = 15 + 20 + \frac{15 \times 20}{100}$$

$$1. = 38\%$$

Q

$$15\% + ?$$

$$15.1. + ?$$

$$20 - 15 + \frac{(20 \times -15)}{100}$$

$$= 20 - 15 - 3$$

$$1. = 2.1.$$

Q:- A number is increased by 20% and then increased by 20%. by what percent should the increased number be reduced so as to get back the original number?

$$20\% + ?$$

$$28\%$$

5

6

5

6

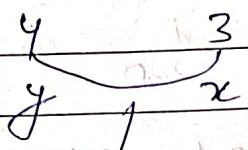
25

36

$$\frac{11}{36} \times 100 = 30\frac{5}{9}\% \approx 33\%$$

②

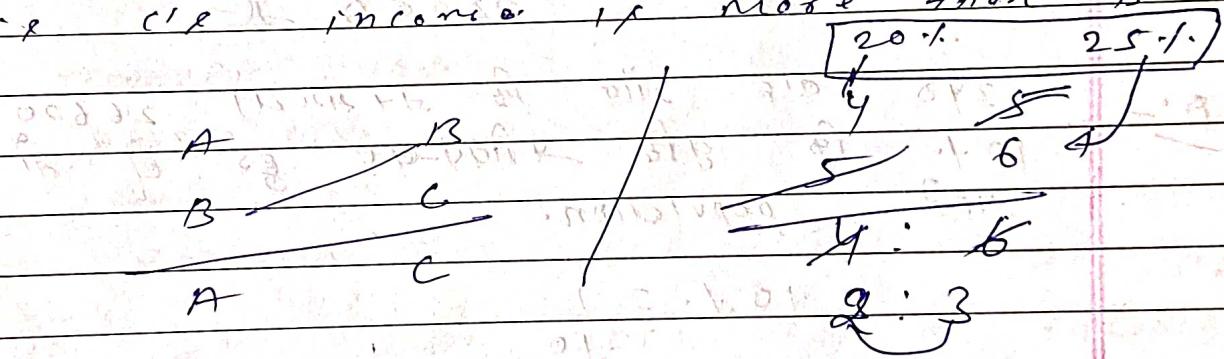
if the value of x is 25% less than y , then the value of y is how much more than the value of x ?



$$\frac{B \times 100}{3} = 33\frac{1}{3}\%$$

③

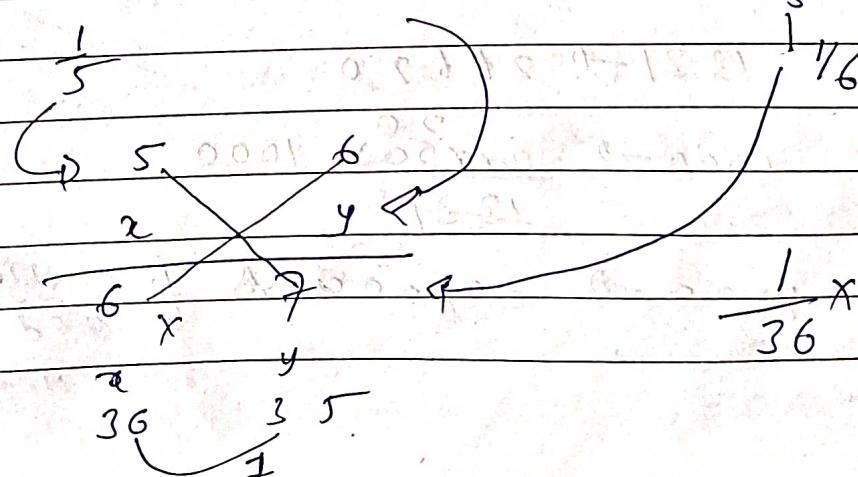
The income of C is 20% more than B and the income of R is 20% more than A. Find the by how much percent is C's income is more than B.



~~$\frac{1}{2} \times 100 = 50\%$~~

④

~~$20\% \quad 21\% \quad \text{Net } 16\frac{2}{3}\% \quad \frac{1}{16}$~~



$$\frac{1}{36} \times 100 = \frac{28}{9} - 2\frac{7}{9}\% = \frac{1}{8}\%$$



population

Q:-

2015



20,000

गतिवर्ष 5% की वृद्धि का माल

पा 6

की

population.

$$5\% = \frac{1}{20}$$

$$20 \quad 21 \rightarrow 1\gamma 8$$

$$20 \quad 21 \rightarrow 2\gamma 8$$

$$\underline{400} \quad \underline{441}$$

$$400 \rightarrow 20,000$$

$$441 \rightarrow \cancel{\frac{20,000}{4}} \times 4.41$$

$$= 22050 \Delta$$

Q:-

348

पा 6

पा

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पा

पा

पा

10% पा वृद्धि का माल 26620 का माल

पैल

population.

$$10\% = \frac{1}{10}$$

$$10 \quad 11 \rightarrow 1\gamma 8$$

$$10 \quad 11 \rightarrow 2\gamma 8$$

$$\underline{10} \quad \underline{11} \rightarrow 3\gamma 8$$

$$1000 \quad 1331$$

$$1331 \rightarrow 26620$$

$$1000 \rightarrow \cancel{\frac{26620}{1331}} \times 1000$$

$$\underline{1331}$$

$$1000 \rightarrow 20,000 \Delta \left(\begin{array}{l} 3 \text{ हजार} \\ \overline{1000} \text{ प्रथम } 51 \end{array} \right)$$

Remaining, total

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Case - 76

(R) Income / expenditure :-

Q-1 21st April 9 AM 2017 45

30% Transport

15% Donation

35% Remaining 70,000 9 AM 27th April

Q-2 Income 9 AM 1.

$$100\% - 20\% + 30\% + 15\% = 35\%$$

$$35\% = 70,000$$

$$100\% = \frac{70,000}{35} \times 100$$

$$= 2,00,000$$

Q-2: Transport = 10%

Food = 15%

Rent = 30%

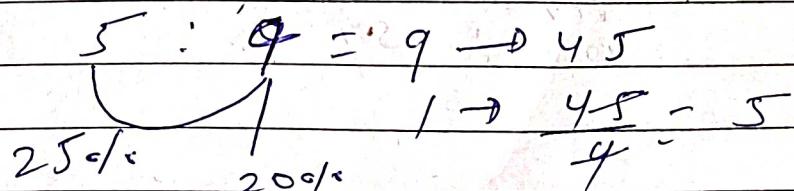
Remaining $\frac{1}{4}$ 11C : PPF
 $\frac{5}{4}$: 4 PPF
25% 21st April 2,000 1st April Income

9 AM.

$$10\% + 15\% + 30\% = 55\%$$

$$100\% - 55\% = 45\%$$

PP LIC : PPF



$$20\% \rightarrow 2000$$

$$100\% \rightarrow \frac{2000 \times 100}{20} \rightarrow 10,000$$

| | | |
|-----|---------------------------------------|---------------|
| 30. | Income of wife 45 | of her 8 |
| 370 | $\frac{1}{6}$ of her daughter (total) | 3 - daughters |
| 9 | $\frac{1}{4}$ of her son (total) | 2 - son |

Remaining : 240 Rs

Income - 45/-

(*) Successive $\frac{2}{5}$, $\frac{1}{5}$, $\frac{1}{5}$, $\frac{1}{5}$

• ~~2180~~ ~~847~~ ~~2121~~ ~~40.1.~~ ~~3141~~
wife ~~27~~ ~~1841~~ ~~78~~ ~~LIC~~ ~~5101~~ ~~216~~

Remaining \rightarrow wife \rightarrow beauty parlor

Remaining \rightarrow wife \rightarrow makeup kit

\rightarrow $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ initial : final ratio

$$40\% = \frac{2}{5}, \quad 20\% = \frac{1}{5}, \quad 10\% = \frac{1}{10}$$

5 3

5 4

10 9

$$\frac{250}{25} : \frac{108}{54}$$

final : final

125 : 54

Concept

(X)

$$P \times C = E$$

[
price consumption expenditure.]

initial, final

10

15

5

10

$$P \quad C = E$$

$$10 \text{Rs/kg} \times 5 = 50$$

$$5 \text{Rs/kg} \times 50 = 50$$

• if expenditure is constant of price $\frac{1}{C}$

Q: A fall in price of $12\frac{1}{2}\%$ will effect $22\frac{1}{2}\%$
 If exp unchanged $\frac{1}{C}$ at C \Rightarrow $C - 25\%$
 effect $67\frac{1}{2}\%$.

$$\text{But } 12\frac{1}{2}\% = \frac{1}{8} \rightarrow \frac{8}{7}$$

$$\frac{1}{7} \times 100 = 14\frac{2}{7}\% \text{ inc}$$

Q: C at $16\frac{2}{3}\%$ \Rightarrow $8\frac{1}{8}$ (inc) \Rightarrow

$E = \text{constant} \cdot \frac{1}{C}$ price effect.

$$16\frac{2}{3} = \frac{50}{3} \times \frac{1}{100} = \frac{1}{6}$$

$$C = 6 \quad 7 \quad \frac{1}{7} \times 100 = 142\frac{8}{7}\%$$

~~$P = 7 \quad 6$~~

Q)

price $66\frac{2}{3} \text{/-}$ \downarrow Exp = constant
 initial con = 250kg final con = $?$

$$66\frac{2}{3} \text{/-} = \frac{2}{3}$$

$$\begin{matrix} p & 3 & 5 \\ \text{con} & \underline{5} & 3 \end{matrix}$$

$$5 \rightarrow 250 \text{kg}$$

$$3 \rightarrow \frac{50}{3} \times 3$$

$$\therefore = 150 \text{ kg} \boxed{B}$$

Q) price $57\frac{1}{7} \text{/-} \downarrow$ (dec) Exp = constant

(i) initial con ? final ? Ratio

(ii) if final con 343g ? of initial

(iii) what is constant ? 20.2401/-
 ? initial price final price 0.49/-

$$57\frac{1}{7} \text{/-} = \frac{4}{7}$$

$$\text{price} = 7 \quad 3$$

$$\text{con} = 3 \quad 7$$

$$(i) \text{ initial : final} = 3 : 7$$

$$(ii) 7 \rightarrow 343$$

$$1 \rightarrow 49$$

$$3 \rightarrow 49 \times 3 = 147$$

(iii) initial price = $\frac{240}{147} = \frac{40}{21}$

final price = $\frac{240}{342} = \frac{40}{57}$

* price $14\frac{2}{7} \text{ l.p.}$

Loss $12\frac{1}{2} \text{ l.p.}$

exp on initial : final ratio

$P \times C = E$

~~7 8~~
~~8 9~~
 $7 : 9$ initial exp

= 12.8

initial : final \leftrightarrow then final?

$7 \rightarrow 12.6$

$9 \rightarrow \frac{12.6}{7} \times 9 = 16.2$ L

* movie theatre:-

price $25.1 \text{ l.p.} = \frac{1}{4}$

Audience $40.1 \text{ l.p.} = \frac{40}{100} = \frac{2}{5}$

Revenue $\text{if } 100\% \text{ sold}$
(8 AM 2 PM)

| | | |
|---|----|----|
| P | 4 | 3 |
| A | 5 | 7 |
| | 20 | 21 |

$\frac{1}{20} \times 100 = 5\%$

(X)

10% cut down की परिणाम की employee
 \Rightarrow 5 रुपये की घट्टी 1: 5 पर 10% की
 25% effect.

| | | |
|-------|---|----|
| emp | 7 | 5 |
| salar | 1 | 2 |
| 25% | 7 | 10 |

$$\frac{3}{7} \times 100 = 42.85\%$$

(X)

$$\text{price } 20\% P = \frac{1}{5}$$

$$\text{exp } 40\% \text{ off} = \frac{2}{5}$$

on its effect. 50% of A is B

| | | |
|-----|---|-----|
| P | 5 | 6 |
| exp | 2 | X Y |
| 50% | 5 | 3 |

$$x \quad y$$

$$20 \quad 15$$

$$2 : 1$$

$$\frac{1}{2} \times 50 = 50\% A$$

✓) b)

(*) P988 / fail

100% - 35% = 65%

65% → $\frac{35}{100} \times 100$

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Rajendra
M&T

Q:- 4 $\frac{9}{9}$ 60% marks 37125 96 passing marks
50 marks 52181 4121 61

$$A. 60\% - 50$$

B $\frac{9}{9}$ 40% marks 37125 67 0%
passing marks 52181 20 marks 94 67

$$B. 40\% + 20$$

Now

$$60\% - 50 = 40\% + 20$$

$$20\% = 70$$

$$100\% = \frac{70 \times 100}{20}$$

$$100\% = 350$$

$$\text{total marks} = 350.$$

$$\text{passing marks} = 60\% - 50$$

$$= \frac{60 \times 100}{350} - 50$$

$$= \frac{350 \times 60}{100} - 50$$

$$= 210 - 50$$

$$= 160$$

$$\text{passing \%} = \frac{160 \times 100}{350} - \frac{320}{7} \%$$

45 9
100/20

25
2 X 100/4

Ajanta

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$$\text{Income} = \text{Exp} + \text{Saving}$$

$$\text{Exp} = \text{cp}$$

$$\text{Income} = \text{sp}$$

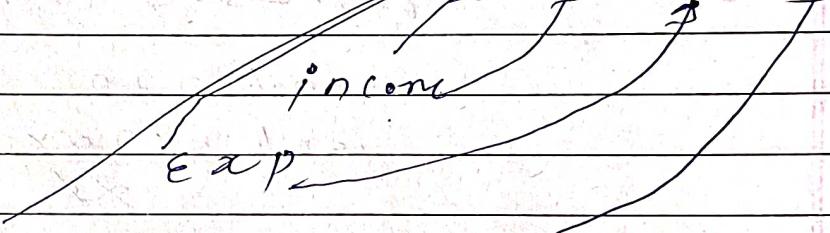
$$\text{In} = \text{Exp} + \text{Save}$$

Q:- Reck Income $\text{45.9} = 12\frac{1}{2} \text{/-}$ खर्च $\text{25/-} = \frac{1}{2}$ $\text{In} = \text{Exp} + \text{Save}$

" " " $8\frac{1}{3} \text{/-} = \frac{1}{12}$ $12 = 1 + 11$

" " " $20 \text{/-} = 1 = \frac{1}{5}$ $5 = 1 + 4$

" " " $45.9 \text{/-} = \frac{9}{20}$ $20 = 9 + 11$



$$\text{Save} = 20 - 9 = 11$$

#

$$\text{income } 40\% \text{ exp} = \boxed{16\%} \text{ saving}$$

$$\text{income } 80\% \text{ exp} = \boxed{120\%} \text{ saving}$$

$$\text{income } 90\% \text{ exp} = \boxed{110\%} \text{ saving}$$

Q:-

A B C

$$5 : 6 : 8 \rightarrow \text{exp}$$

$$80\% \quad 40\% \quad 20\% \rightarrow \text{saving}$$

$$\frac{100-20}{100-20} \left(\begin{array}{l} 5 : 10 : 40 \\ \text{income?} \end{array} \right)$$

$$20\% \quad 60\% \quad 20\% \rightarrow \text{exp in.}$$

$$A = 20\% = \frac{1}{5} = 5 \quad \left. \begin{array}{l} C = 20\% = 1 - \frac{8}{5} \\ C = 40 \end{array} \right.$$

$$= 25$$

$$B = 60\% = \frac{6}{5} = 12 \quad \left. \begin{array}{l} A : B : C = \text{income} \\ 25 : 10 : 40 \end{array} \right.$$

899.11 - 900
1.00

1 → 2
Ajanta
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$57 \frac{1}{7} \cdot 1. \exp \frac{900}{1.00}$ Income = $ex + \text{sunny}$
 $f = y + z$

$57 \frac{1}{7} \cdot 1. = \frac{45}{2} \exp$
income sunny 0.0

Now $f = \frac{y}{x_8} + \frac{z}{x_8}$

Income $12 \frac{1}{2} \cdot 1.$

(56) $f \times 9$
~~8~~ $\frac{f}{8} = 7 \frac{1}{8}$
 $8 - 9$
 $f = 63 - 24 + \underline{39}) 15$

$\exp 25.1 \cdot \frac{1}{4} = \frac{1}{4}$

$\frac{15}{24} \times 100 = 62.5\%$

$y = 3$

Income = $ex + s_g$

Q1 $62 \frac{2}{3} \cdot 1. \exp = \frac{3}{2} \frac{2}{3} \rightarrow 3 - = 2 + 1$
 $x_{12} = x_{12}$

income $58 \frac{1}{3} \cdot 1. \frac{7}{12} = 7 \frac{1}{12} \frac{3}{12} = 24 + 12$
 $\frac{36}{12} \times 100 = 300$

$\exp \frac{1}{6} 16 \frac{2}{3} \cdot \frac{1}{6} = \frac{1}{6}$
 $f = 20 + \underline{32} 25$

~~1650
3x100~~

~~65 5~~

~~25~~ $\times 100$

~~6x51 = 34x5~~

~~= 20 B \frac{1}{3} 1~~

अद्वी वात छुमा फिरा के यही १२८१ ६)

$$\text{Q: } 12 \frac{1}{2} \% \text{ exp} = 1 \quad m = \text{exp} + \text{save}$$

~~$$m = 1 + \gamma$$~~

$$\text{Incom} = 20\% P$$

$$800 = 100 + 700$$

$$\text{Exp} = 10\% x$$

$$\frac{800 \times 120}{100} = \frac{160 \times 90}{100} +$$

$$\text{Save } \nabla \text{ effect.} \quad 960 = 90 + 870$$

$$\begin{aligned} & \frac{120}{70} \times 100 \\ &= 170/7 \\ &= 24 \frac{2}{7}\% P \end{aligned}$$

(Saving) Δ

~~m-2~~ direct :-

$$\text{Incom} = \text{Exp} + \text{Save}$$

$$\frac{\Delta}{x_{20}} = 1 + \gamma$$

$$160 = -10 + 7x$$

$$\frac{170}{7} = x \quad \Delta =$$

$$\text{Incom} = \text{Exp} + \text{Save}$$

$$\text{Q: } 40 - 1.62\% P$$

$$5 = 2 + 3$$

$$x(20) = x(2) - x(1)$$

$$20\% P = \text{Incom}$$

$$10\% P = \text{Save}$$

$$-100 = 2x + 30$$

$$\text{Exp } \nabla \text{ effect}$$

$$\begin{aligned} -130 &= x \\ x &= -65\% \end{aligned}$$

~~(X)~~ Junior satisfactory method :-
 $J = \frac{S}{n} \Rightarrow$

Class A : B

Retro 1 : 2 let

A. 30% : 50% X

overall avg?

$30\% + 20\% \times 1$

$\frac{10}{2}$

avg = 40% ~~X~~

O' will A : B : C total ratio

Retro 1 : 3 : 6 = 10

20% : 50% : 60%
 (LR)

overall LR = ?

Let minimum % = 50%.

Ratio
 $A = 20\% \times 1 \quad 50\% \times 3$

$B = 0\% \times 1 \quad " \quad \times 3$

$C = 10\% \times 1 \quad " \quad \times 6$

or LR = $50 + \frac{20 \times 1 + 0 \times 3 + 10 \times 6}{10}$

$= 50 + \frac{20 + 60}{10} = 50 + \frac{80}{10}$

$= 58\% \quad 1$

| | male | female | male | female |
|---------|-------|--------|------|--------|
| | 64.00 | 178.00 | | 1 : 2 |
| married | 65% | 30% | 65% | 30% |

find unmarry %

$$\text{overall margin} = 30 + \frac{35}{8} \times 1$$

$$= 30 + 11 \frac{3}{2} = 41 \frac{2}{3}\%$$

$$\text{unmarry} = 100\% - 41 \frac{2}{3}\% = 58 \frac{1}{3}\%$$

Q: - A : C : B : C

$$100 : 8 : 4 = 8$$

$$\therefore \text{Margin} = 64.1. 70\%. 80\%$$

$$\text{overall margin} = 64 + \frac{6 \times 3}{8} + 16 \times 4$$

$$= 64 + \frac{18 + 64}{8} = 64 + \frac{82}{8}$$

$$= 64 + 10.25$$

$$= 74.25\% \quad \Delta$$

$$\begin{aligned} Q: - & A : B : C : D \\ & 3 : 1 = 4 \\ & 40\% : x \end{aligned}$$

$$50\% = \frac{40 \times 3 + x}{4}$$

$$200 - 120 = 80$$

$$\text{overall} = 50\%$$

$$80\% = x \rightarrow$$

$$\begin{array}{r} 185 \\ 55 \\ \hline 790 \end{array}$$

Q:-

$$\begin{array}{ccc} A & B & C \\ 1 : 2 : 3 = 6 \\ 55x & 2x & 45 \\ & & 45 \end{array} \quad \text{overall} = 60\%$$

$$60 = 55x + 2x + 45$$

6

$$360 - 190 = 2x$$

$$170 = 2x$$

~~$$85 = x - 1$$~~

85

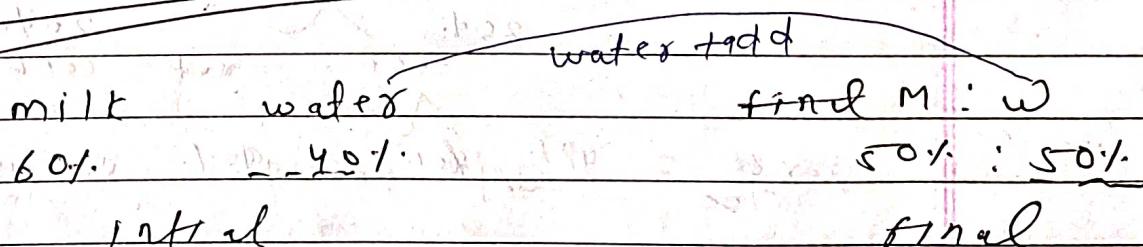
Q:-

$$\begin{array}{ccc} A & B & C \\ 60\% & 30\% & 10\% \\ 67.5\% & x & 95\% \end{array} \quad \text{overall}$$

Since process

(mixture in %)

Ex



Rat o - Initial : final

$$I \times \frac{60}{100} = f \times \frac{50}{100}$$

$$I : f$$

$$\frac{I}{f} = \frac{50}{60} = \frac{5}{6}$$

$$5 : 6$$

Q:- A1: water
40% ~~60%~~

16 वर्षीय वातर से

प्रति सेकंड में 82

70 लीटर सेकंड में

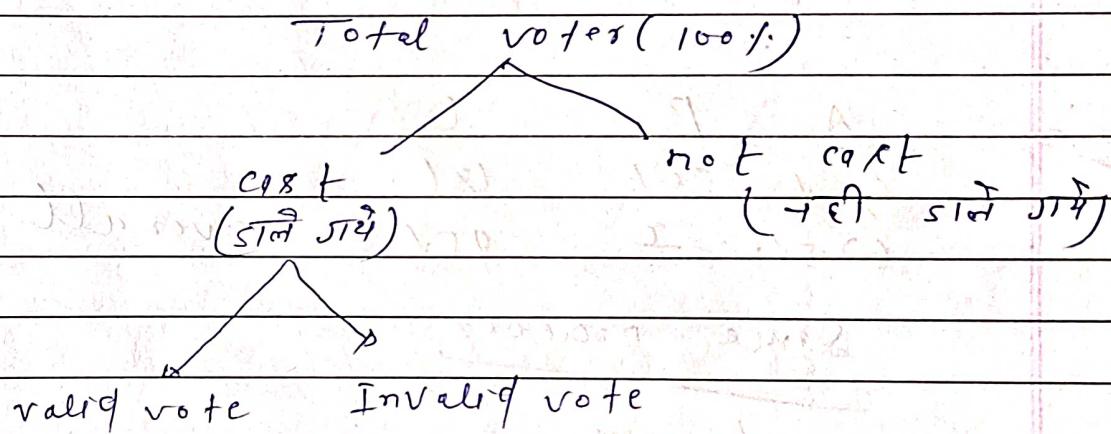
find intral : final?

$$\frac{I \times 40}{100} = \frac{f \times 30}{100}$$

$$I = \frac{30}{40} = 3 : 4 \text{ लीटर}$$

~~100%~~

"election":-



∴ let Total vote

80% \swarrow \searrow 20%

cast not cast

$$\frac{100 \times 10}{100}$$

$$\frac{80 \times 60}{100} = 48\% \text{ valid} \quad 100\% - 48\% - 52\% = 32\%$$

$$\frac{80 \times 60}{100}$$

Type-1

O:- election में winner की 60% vote होती है।

259 में 1200 वोटे में 721 total
vote 979

$$(total) 100\% - 60 = 40\%$$

winner 1080

60% 40%

$$20\% = 1200$$

$$100\% = \frac{1200 \times 100}{20}$$

$$100\% = 6000$$

Note:- जीत जाया था 721 जीत 321 वाला होता है।
जीत वाला का difference.

Type-2:-

O:- election में 20% vote invalid है।

मित्र winner की valide vote की 70% होती है।
मित्र वाला का diff = 9600 है। जो 321

vote है।

(i) valid (ii) winner (iii) invalid vote

so/n if invalid = 20%.

$$valid = 80\%$$

valid %

$$winner = \frac{80 \times 70}{100} = 56\%$$

$$32\% = 9600$$

$$10800 = \frac{80 \times 30}{100} = 24\%$$

$$100\% = 30000$$

$$(i) \text{ valid vote} = \frac{30,000 \times 80}{100} = 24,000$$

$$(ii) \text{ winner vote} = \frac{24000 \times 70}{100} = 16800$$

$$(iii) \text{ losser vote} = \frac{24000 \times 30}{100} = 7200$$

O: election \rightarrow 10% vote Not cart.

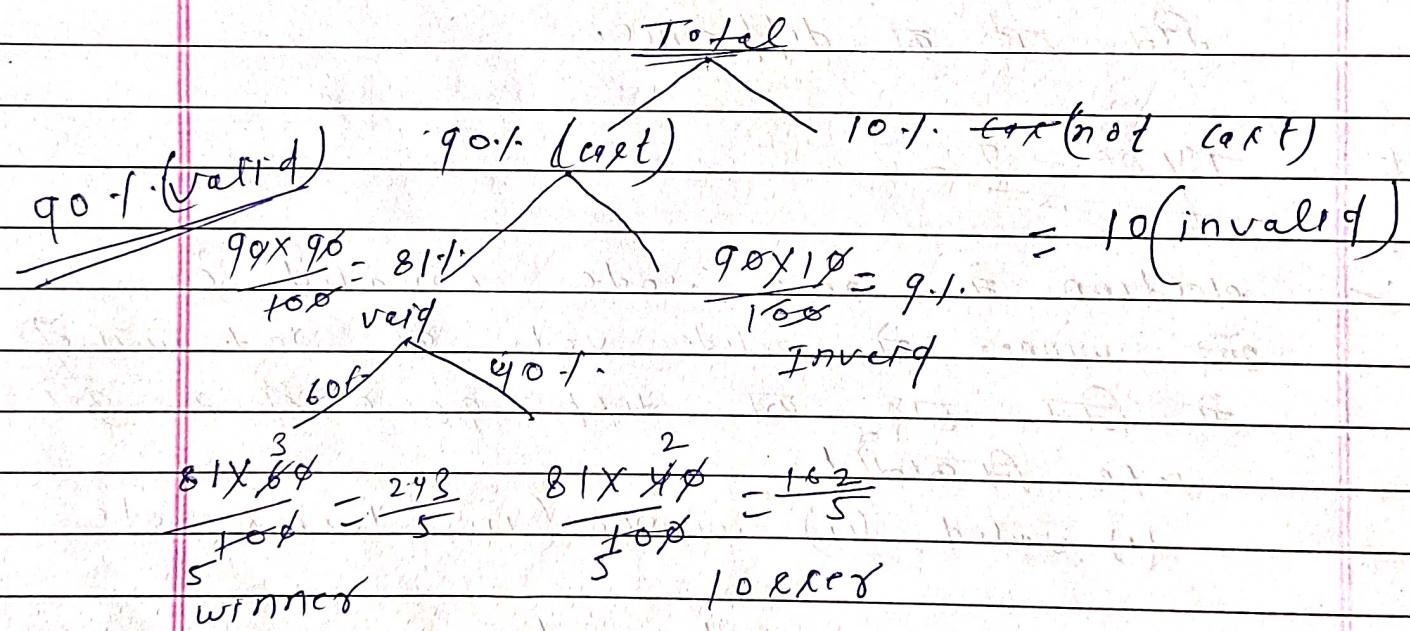
10% vote Invalid

winner :- valid vote \Rightarrow 60%

~~for ETS of diff = 16,200 vote~~

(i) total vote (ii) cart vote (iii) valid vot

(iv) winner vote (v) losser vote.



$$\text{diff} = \frac{243}{5} - \frac{162}{5} = \frac{81}{5}\%$$

$$\frac{81}{5}\% = 16200$$

$$160.5 = \frac{16200 \times 5 \times 100}{100}$$

$$= 1,000,000 \text{ (vote)}$$

(i) total vote = 1,00000

(ii) cast vote

$$\frac{1,000,000 \times 90}{100} = 90,000$$

(iii) valid vote = $\frac{90,000 \times 90}{100}$

$$= 22,900 \rightarrow 81,000$$

(iv) winner vote =

$$\frac{22,900 \times 243}{5 \times 100}$$

$$= 81,000 \times 60$$

$$= 48,600 \leftarrow$$

lacke vote:

$$\frac{81,000 \times 40}{100} = 32,400$$



Type - 4

electron

winner

diff = 8000

total vote 90

winner vote = ?

70%

lacker vote ?

winner

lacker

20

30

$$40 f. = 8000$$

$$\frac{100 f.}{40} = \frac{8000 \times 100}{40} = 20,000$$

$$\text{winner: } \frac{20,000 \times 70}{100} = 14,000$$

$$\text{lacker: } \frac{20,000 \times 30}{100} = 6,000 \leftarrow$$

Ques. In an election 60% questions were valid vote or in invalid vote 1521 871

election में 20% invalid
winner के total vote 60%
invalid = 20%.

परं total
vote 1541

valid = 80%.

$$\text{winner} = \frac{80}{100} \times 60 = 48$$

en

80%
60%

total = valid vote - winner

$$= 80\% - 60\% = 20\%$$

∴ election में 20% invalid

winner = total vote \Rightarrow 50%.

diff = 1800 vote

(i) total vote (ii) valid (iii) winner
100% 100%

valid = 80%.

winner = 50%

100% = 30

20% = 1800

$$100\% = \frac{1800 \times 100}{20}$$

$$100\% = 9,000$$

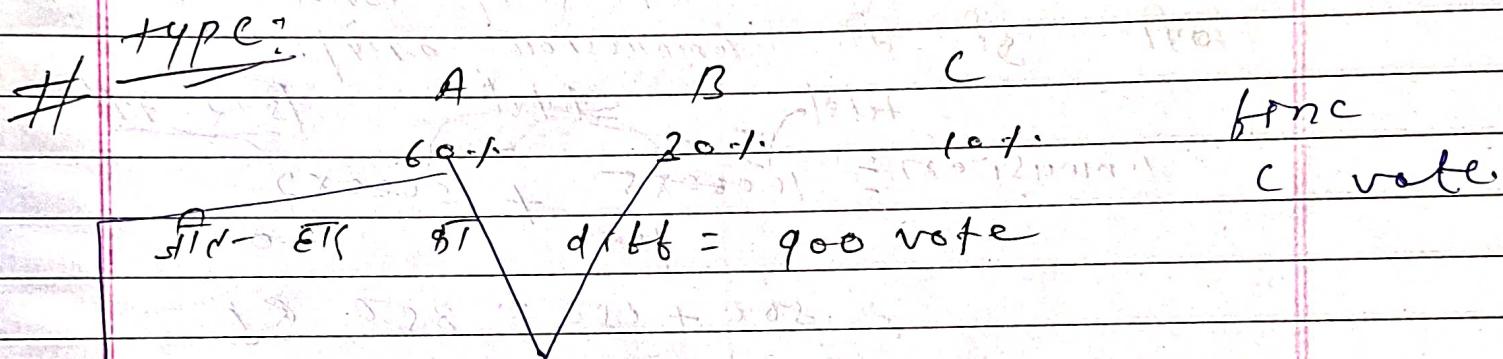
(i) total vote = 9,000

$$(1) \text{ valid vote} = 9,000 \times \frac{80}{100}$$

$$= 72,00$$

$$(ii) \text{ winner} = 9,000 \times \frac{50}{100} = 4500$$

$$(iii) \text{ loser} = 9,000 \times \frac{30}{100} = 27,00$$



top - 2 m.e. $30\% = 900$
 diff. $\frac{100\%}{100\%} = \frac{900 \times 100}{150}$

11% $\frac{100\%}{100\%} = 3,000$

10% $\frac{100\%}{100\%} = 2,000$
 10% $\frac{100\%}{100\%} = 300$ vote

(iv)

"Commission :-"

1. $10,000 \rightarrow \text{मिली रु 10/- की commission}$

$$10,000 \times \frac{10}{100} = 1000 \text{ Ans}$$

② $10,000 \text{ Rs } \rightarrow \text{मिली } 10\% \text{ commission}$
 & $10,000 \text{ के से } 31\% \text{ की मिली है}$
 & $10\% \text{ bonus के से } 15,000 \text{ की}$
 मिली तो की commission का है।

$$\text{total} - \cancel{\text{total}} \quad \underline{15+2=7.5}$$

$$\text{commission} = \frac{10,000 \times 5}{100} + \frac{5000 \times 7}{100}$$

$$= 500 + 350 = 850 \text{ Rs}$$

(x)

Tax :- Income \rightarrow जटि है।

$$\text{total income} - \text{Tax} \rightarrow \boxed{\text{Net Income}}$$

after
tax deduction.

$$\text{tax} = \frac{\text{tax}}{\text{total income}} \times 100$$

$$\boxed{\frac{\text{tax}}{\text{Income}}}$$

$$\boxed{\frac{\text{tax}}{\text{Income}} = \text{Net tax}}$$

Q:- अग्र में 31/4/95 में 18.1.
 की बिल की तोड़ी
 31/4 में 20.1. की तोड़ी
 31/4 में 20.1. की तोड़ी
 और 31/4 में 20.1. की तोड़ी
 और 31/4 में 20.1. की तोड़ी

Net Total

$$192 \times 18.1 = NT \times 20.1$$

$$\frac{192}{NT} = \frac{20.1}{18.1} = \frac{1}{0.9}$$

$$1 - f_{\text{re}} = \frac{1}{0.9} \times 100$$

Final

~~$$\frac{1}{0.9} \times 100 =$$~~

$$1 - f_{\text{re}} = \frac{1}{0.9} \times 100$$

$$= 100 / 0.9 = 111$$