DAY-3

Q1) Three candidates contested an election & recieved 1136, 7636 & 11628 votes. What % of total votes did winning candidate get?

Sol) Winner = max votes
= 11628

Total votes = 1136 + 7636 + 11628
= 20400

% = $\frac{11628}{20400} \times 100 = \frac{11628}{204} = 57$

Q2) 2 tailors X, Y are paid a total of 550 per week by their employer. If X is paid 120% of sum paid to Y, how much is Y paid per week?

Sol) X + Y = 550

X = 120% of Y
= $\frac{120}{100} \times y$

$\frac{12}{10} y + y = 550 \rightarrow 22y = 5500$

$y = \frac{5500}{22} = Rs\,250$

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(13) X went to stationery & bought things worth Rs 25, out of which 30p were on sales tax. If tax rate was 6%, then what is cost of tax Free items

Ans Total amt spent = 25

tax rate = 6%

let total ~~tax free~~ taxable amt = x

6% of x = 30p

$\frac{6 \times x}{100} = \frac{30}{100} \longrightarrow x = \frac{30}{6} = 5$

$[25 - (5 + 0.30)] = Rs\ 19.70$

(4) Rajeev buys goods worth 6650. He gets rebate of 6% on it. After paying rebate, he pays 10% tax. Find amt he will have to pay.

Ans Amt = 6650

Rebate = 6%

New Amt = $6650 + \left(\frac{6}{100} \times 6650\right)$

$= 6650 - 399 = 6251$

tax = 10%

~~new amt = 7049 - 10/100 × 7049~~

~~= 7049 - 704.9~~

=

Final amt = Rs (6251 + 625.1)

= Rs 6876.1

(15) The population of town ↑ from 1,75,000 to 2,62,500 in decade. The average % ↑ is

% ↑ = $\frac{\text{new value} - \text{old value}}{\text{old value}} \times 100$

$= \frac{262500 - 175000}{175000} \times 100$

$= \frac{87500}{1750} = \frac{350}{7} = 50\%$

50% in 10 years

50% population ↑ per year = $\frac{50}{10}$

= 5%