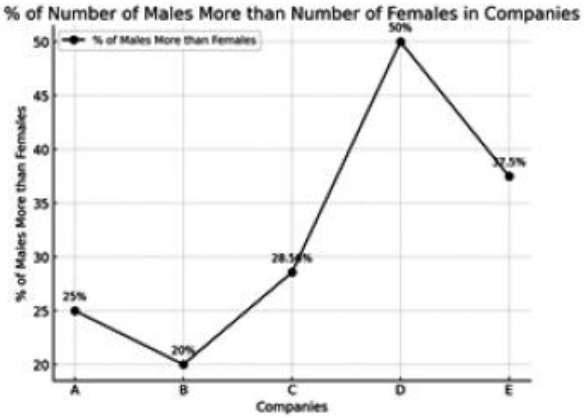
BPSC CONCEPT WALLAH

DATA INTERPRETATION

Sectional Test: 1

Q1. The given Pie Chart shows the percentage of employees in five different companies, and the Line Chart shows the percentage of males more than females in these companies. The total number of employees across these companies is 18,000.



Total no. of Employees = 18,000.

Company	Total no. of employee	Male	Female
A	3240	1800	1440
B	3960	2160	1800
C	2880	1620	1260
D	4500	2700	1800
E	3420	1980	1440

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

a. Find the ratio of the number of females in D to the number of males in C.

Sol^{n}: As per data mentioned in table,

No. of females in Company 'D' = 1800 employees

No. of males in Company 'C' = 1620 employees

according to question,

the required ratio : $\frac{\text{No. of females in Co. 'D'}}{\text{No. of males in Co. 'C'}}$

$= \frac{1800}{1620} = \frac{10}{9}$

$= \boxed{10 : 9}$ Ans.

Hence, the ratio of the number of females in Co. 'D' to the no. of males in Co. 'C' is 10:9.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

b. The number of males in A and E is what percent more than the number of females in B and D?

Sol: As per data mentioned in the table,

No. of males in A = 1800

No of males in E = 1980

(A+E) Combined together 3780

Now,

No. of females in B = 1800

No. of females in D = 1800

Combined together (B+D) 3600

As per ques":

$$\text{Percentage Increase} = \left(\frac{\text{Increase}}{\text{Original value of B \& D}} \times 100\right)$$

$$= \frac{3780-3600}{3600} \times 100$$

$$= \frac{180}{3600} \times 100$$

$$= \boxed{5\%}$$ Ans.

Hence, no. of males in A & E is 5% more than no of females in B & D.

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

c. If the number of males in D increased by 26% and the number of females increased by 16%, then by how much percent the number of males in D is more than the number of females?

Sol: As per given data from table,

Total employee in D = 4,500

Females in D = 1,800

Males in D = 2,700 (since, male are 50% > than female)

Now,

New no. of males in D (increased by 26%)

New males = Original no. + 26% of Original no.

$= 2,700 + \frac{26}{100} \times 2,700$

$= 2,700 + 702$

$= \boxed{3,402 \text{ males}}$

Similarly,

New no. of females in D (increased by 16%)

New females = Original no. + 16% of original no.

$= 1,800 + \frac{16}{100} \times 1800$

$= 1800 + 288$

$= \boxed{2088 \text{ females}}$

Now, as per the ques:

$\text{Percentage more} = \frac{\text{New males} - \text{New female}}{\text{New females}} \times 100$

$= \frac{3402 - 2088}{2088} \times 100$

www.bpscconceptwallah.com

प्रश्नों के सामने वाले सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

$$= \frac{1314}{2088} \times 100$$

$$= \boxed{62.96\% \approx 63\%}$$

Hence, after the increase, the number of males in Company D is $62.96\% \approx 63\%$ more than the number of females.

BPSC CONCEPT WALLAH BCW

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

d. Find the difference between the number of males in B, C, and D and the number of females in A, D, and E.

Sol: As per the data, given in table,

No. of males in B = 2160
No. of males in C = 1617
No. of males in D = 2700
Total no. (B+C+D) = 6477 males

Similarly,

No. of females in A = 1440
No. of females in D = 1800
No. of females in E = 1455
Total no. (A+D+E) = 4695 females

As per the question:

Difference = Total no. of males in B, D & E − Total no. of females in A, D & E

= 6477 − 4695

= 1782

Hence, the number of males in B, C and D is 1782 more than the number of females in A, D and E.

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

e. If the income of each female is 14.28% less than that of a male and the annual package of a male is 14.7 lacs per annum, then find the monthly income of each female.

Sol: Given in the ques^{n}:

Annual package of a male = 14.7 lakh/year $\approx$ 1470000

Now,

Annual income of female = Annual income of male − 14.28% of Annual income of male

$= 14.7 - \left(\frac{14.28}{100} \times 14.7\right)$

$= 14.7 - (0.1428 \times 14.7)$

$= 14.7 - 2.1$

$= \boxed{12.6 \text{ lacs per annum}}$

As per question,

Monthly income of each female $= \frac{\text{Annual income of female}}{\text{Total months in year}}$

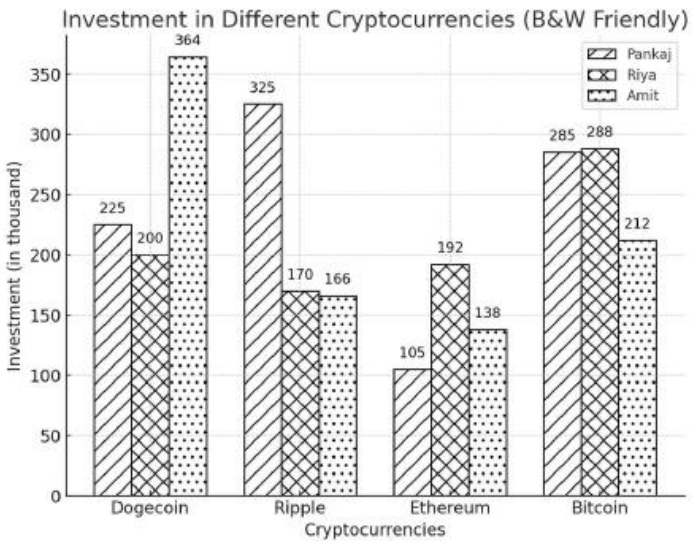
$= \frac{12.6 \text{ lacs}}{12}$

$= \boxed{1.05 \text{ lacs per month}}$

Hence, the monthly income of each female is Rs 1.05 lacs per annum.

BPSC CONCEPT WALLAH

Q1. The bar chart represents the investment (in thousands) made by three people (Pankaj, Riya, Amit) in purchasing four different cryptocurrencies.



Person	Dogecoin	Ripple	Ethereum	Bitcoin
Pankaj	225K	325K	105K	285K
Riya	200K	170K	192K	288K
Amit	364K	166K	138K	212K

BPSC CONCEPT WALLAH

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

a. What is the average investment (in thousand) by Amit in all cryptocurrencies together?

Sol: From the given chart,

Amit's investment (in thousand) in different cryptocurrencies are : Dogecoin - 364, Ripple - 166, Ethereum - 138, Bitcoin - 212

Now,

Total investment by Amit (in K) = Sum of all coin

$= 364 + 166 + 138 + 212$

$= 880$ (in thousand)

So,

$$\text{Average investment (in thousand)} = \frac{\text{Total Investment}}{\text{No. of Cryptocurrencies}}$$

$$= \frac{880}{4}$$

$$= \boxed{220 \text{ (in thousand)}}$$

Hence, the average investment (in thousand) by amit in all cryptocurrencies together is 220000.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

b. What is the ratio of investment by Pankaj in Dogecoin and Ethereum to that of Amit in Ethereum and Bitcoin?

Sol: As per given table,

Investment by Pankaj in Dogecoin = 225000
Ethereum = 105000
Total 330000

Investment by Amit in Ethereum = 138000
Bitcoin = 212000
Total 350000

Now,

$$\text{required ratio} = \frac{\text{Investment by Pankaj}}{\text{Investment by Amit}}$$

$$= \frac{330000}{350000}$$

$$= \frac{33}{35} \Rightarrow \boxed{33:35}$$ Ans

Hence, the ratio of investment by Pankaj in Dogecoin and Ethereum to that of Amit in Ethereum and Bitcoin is 33:35.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

c. The amount invested by Riya in Ethereum is what percent of the total investment of Pankaj?

Sol:- As per the table,

Investment by Riya in Ethereum = 192000

Investment by Pankaj in Ethereum = 105000
Dogecoin = 225000
Ripple = 325000
Bitcoin = 285000
Total Investment 940000

Now,
according to question,

$$\text{required percentage} = \frac{\text{Riya's investment in Ether.}}{\text{Total investment by Pankaj}} \times 100$$

$$= \frac{192000}{940000} \times 100$$

$$= \boxed{20.42\ \%} \quad \text{Ans.}$$

Hence, Riya's investment in ethereum is 20.42% or 21% approx of Pankaj's total investment.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

d. If the price of one Dogecoin is Rs. 150 and the price of one Ethereum coin is Rs. 250, then what is the total number of these two coins bought by Pankaj?

Sol: Given,

Price of one Dogecoin = Rs 150

" " One Ethereum = Rs 250

Now,

$$\text{Total no. of Dogecoins} = \frac{\text{Total Investment}}{\text{Price per coin}}$$

$$= \frac{225000}{150}$$

$$= \boxed{1500 \text{ Dogecoin}}$$

$$\text{Total no. of Ethereum} = \frac{\text{Total Investment}}{\text{Price per coin}}$$

$$= \frac{105000}{250}$$

$$= \boxed{420 \text{ Ethereum}}$$

Now, according to question,

Total no. of two coins = No. of Dogecoins + No. of Ethereum

$$= 1500 + 420$$

$$= \boxed{1920 \text{ coins}}$$ Ans.

Hence, the total no. of Dogecoin and Ethereum coins bought by Pankaj is 1920 coins.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

e. Find the total amount invested by all three people in all 4 cryptocurrencies together.

Sol: Given as per chart,

Total investment by Pankaj = Sum of investment in all 4 coins

= 225000 + 325000 + 105000 + 285000

= Rs 940000

Total investment by Riya = Sum of investment in all 4 coins by Riya

= 200000 + 170000 + 192000 + 288000

= Rs 850000

Total investment by Amit = Sum of investment in all 4 coins by Amit

= 364000 + 166000 + 138000 + 212000

= Rs 880000

Now, according to question,

Total investment by all 3 in all 4 coins = Sum of total investment by all 3

= 940000 + 850000 + 880000

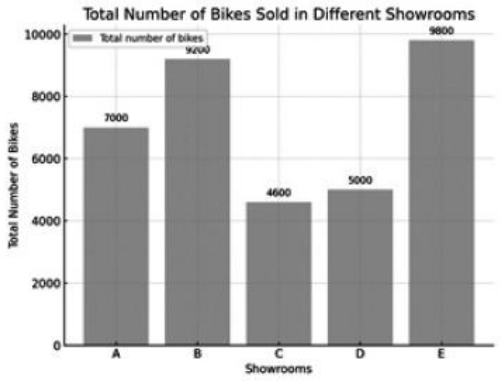
= Rs 2670000 Ans.

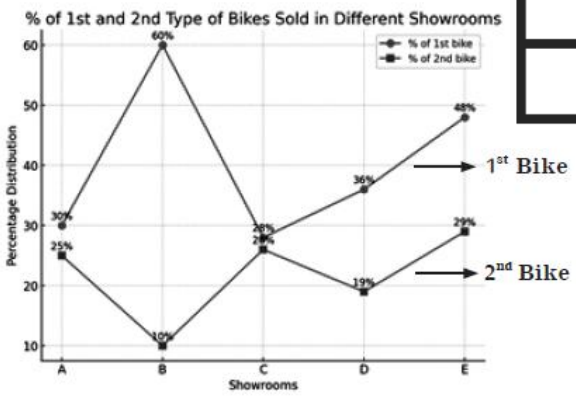
Hence, the total amount invested by all three people in all four cryptocurrencies is Rs 2670000.

www.bpscconceptwallah.com

Q2. The given Bar Chart represents the total number of bikes sold in five different showrooms (A, B, C, D, E), and the Line Chart shows the percentage of 1st type and 2nd type of bikes sold in those showrooms.

(Note: Total no of bikes is equal to sum of 1st Bike, 2nd Bike and 3rd Bike)





Showroom	% of 1st Bike	% of 2nd Bike
A	30%	25%
B	60%	20%
C	26%	28%
D	35%	19%
E	48%	29%

Showroom	Total Bikes	1st Bike	2nd Bike	3rd Bike
A	7000	2100	1750	3150
B	9200	5520	920	2760
C	4600	1288	1196	2116
D	5000	1800	950	2250
E	9800	4704	2842	2254

BPSC CONCEPT WALLAH

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

a. The number of bikes of Type 3rd sold by showroom E is what % more or less than the total number of bikes sold by showroom B?

Sol: As per given table,

Type 3rd total bikes sold by showroom E = 2254

Total bikes sold by showroom B = 9200

according to question,

$$\text{Percent difference} = \frac{\text{Difference}}{\text{Total of showroom B}} \times 100$$

$$= \frac{9200 - 2254}{9200} \times 100$$

$$= \frac{7146}{9200} \times 100$$

$$= 77.67\% \approx 78\%$$ Ans.

Hence, the number of type 3rd bike sold by Showroom E is approx 78% less than the total number of bikes sold by showroom B.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

b. What is the ratio of the number of bikes of type 3rd sold by showroom B and C together and the number of bikes of type 2nd sold by showroom C?

Sol: As per given table,

No. of bikes of type 3rd sold by B = 2760

" " " " " " by C = 2116

Total Combined (B+C) 4876 Bikes

then,

No. of bikes of type 2nd sold by C = 1196 Bikes

according to question,

$$\text{Required ratio} = \frac{\text{Total type 3rd bike (B+C)}}{\text{Type 2nd bike in showroom C}}$$

$$= \frac{4876}{1196} \quad \begin{matrix} 1219 \\ 299 \end{matrix}$$

$$= \boxed{1219 : 299}$$ Ans

Hence, the ratio of the number of type 3rd bikes sold by showroom B and C together to the no. of type 2nd bikes sold by showroom C is 1219 : 299.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

c. Find the average number of bikes of type 3rd sold by all showrooms together.

Sol: Given, as per table

No. of bikes of type 3rd sold by showroom A = 3150

" " " " " " " showroom B = 2760

" " " " " " " showroom C = 2116

" " " " " " " showroom D = 2250

" " " " " " " showroom E = 2254

Total Combined (A+B+C+D+E) 12530 Bikes

Now, according to question,

$$\text{Average no. of bikes} = \frac{\text{Total no. of type 3rd bike sold by all showroom}}{\text{No. of total showroom}}$$

$$= \frac{12530}{5}$$

$$= \boxed{2506 \text{ Bikes}} \quad \text{Ans.}$$

Hence, the average no. of type 3rd bikes sold by all showrooms together is 2506 bikes.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

d. What is the difference between the number of bikes sold of type 2nd by showroom C and type 3rd sold by showroom A and E together?

Sol: As per given data from table,

No. of type 2nd bike sold by showroom C = 1196

No. of type 3rd bike " " showroom A = 3150

" " " " " " " showroom E = 2254

Combined together (A+E) 5404

Now,

According to question,

Required difference = (No. of type 3rd bikes sold by showroom A & E) − (No. of type 2nd bikes sold by showroom C)

= 5404 − 1196

= 4208 bikes

Hence, the difference b/w the no. of bikes sold of type 2nd by showroom C and type 3rd sold by showroom A and E together is 4208 bikes.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

e. The number of bikes of type 1st sold by B, C, and D together is what % more or less than the number of bikes of type 3rd sold by A, B, and C together?

Sol: As per given data in the table,

No. of type 1st bikes sold by B = 5520
" " " " " " by C = 1288
" " " " " " by D = 1800

Combined together (B+C+D) = 8608 Bikes

Now,

No. of type 3rd bikes sold by A = 3150
" " " " " by B = 2760
" " " " " by C = 2116

Combined together (A+B+C) = 8026 Bikes

Now, according to question:

$$\text{Required percentage} = \frac{\text{Type 1st by B, C \& E} - \text{Type 3rd by A, B \& C}}{\text{Type 3rd sold by A, B, C}} \times 100$$

$$= \frac{8608 - 8026}{8026} \times 100$$

$$= \frac{291}{4013} \times 100$$

$$= \boxed{7.25\ \%}$$ Ans.

Hence, the no. of bikes of type 1st by B, C & D to the number of bikes of type 3rd by A, B & C is 7.25%.

www.bpscconceptwallah.com

Q2. The given table provides the ratio of Pencil, Pen, and Notebook sold by a shopkeeper on five different days and the total number of items sold on each day.

Table: Ratio of Pencil, Pen, and Notebook Sold by a Shopkeeper

Days	Pencil : Pen : Notebook	Total number of items sold
Monday	12:13:15	400
Tuesday	8:6:11	350
Wednesday	7:9:4	360
Thursday	6:5:4	270
Friday	10:12:13	420

Days	Total item sold	Pencil sold	Pens sold	Notebooks Sold
Monday	400	120	130	150
Tuesday	350	112	84	154
Wednesday	360	126	162	72
Thursday	270	108	90	72
Friday	420	120	144	156

BPSC CONCEPT WALLAH

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

a. What is the average number of pencils sold by the shopkeeper from Monday to Friday?

Sol: Given as per table,

No. of pencil sold on Monday = 120
" " pencil " " Tuesday = 112
" " pencil " " Wednesday = 126
" " pencil " " Thurday = 108
" " pencil " " Friday = 120

Total no. of pencil (Mon to Fri) 586 pencil

Now, according to question,

$$\text{Average no. of pencil} = \frac{\text{Total pencil sold}}{\text{No. of Days}}$$

$$= \frac{586}{5}$$

$$= \boxed{117.2 \text{ pencils}} \text{ Ans}$$

Hence, the average no. of pencils sold by by the Shopkeeper from Monday to friday is 117.2 or approx 117.

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

b. The total number of pens sold on Monday is how much percent more or less than that sold on Thursday?

Sol: As per the table,

No. of pens sold on Monday = 130

No. of pens sold on Thursday = 90

Now,

According to question,

$$\text{Required percentage} = \frac{\text{Difference}}{\text{Original value}} \times 100$$

$$= \frac{\text{Pens sold on Mon} - \text{Thu}}{\text{Pens sold on Thu}} \times 100$$

$$= \frac{130 - 90}{90} \times 100$$

$$= \frac{40}{90} \times 100$$

$$= \boxed{44.44\%}$$ Ans.

Hence, the no. of pens sold on monday is 44.44% or approx 45% more than that sold on thursday.

BPSC CONCEPT WALLAH BCW

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

c. If 37.5% of pens sold on Friday are Black and the remaining are Blue, then find the number of Blue pens sold by the shopkeeper on Friday.

Sol: As per given in table,

No. of pens sold on friday = 144 pens

Now,

No. of pens that is black = 37.5% of total

$= \frac{37.5}{100} \times 144$

$= \boxed{54 \text{ pens.}}$

No. of pens that is blue = Total no. of pen − No. of black pen

$= 144 - 54$

$= \boxed{90 \text{ pens.}}$ Ans.

Hence, the no. of blue pens sold by shopkeeper on friday is 90 pens.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

d. If each Pencil is sold at Rs. 3.50, each Pen at Rs. 2.50, and each Notebook at Rs. 12 on Wednesday, then find the total revenue generated by the shopkeeper on that day.

Sol: Given in que^n

Price of one Pencil = Rs 3.50

" " one Pen = Rs 2.50

" " one Notebook = Rs 12

As per given table,

No. of Pencil sold on wednesday = 126

" " Pen " " " = 162

" " Notebook " " " = 72

Now,

Total revenue of Pencil on wednesday = Quantity Sold × Price per unit

$\Rightarrow 126 \times 3.50$

$= Rs\ 441$

" " Pen on wednesday $\Rightarrow 162 \times 2.50$

$= Rs\ 405$

" " Notebook on wednesday $\Rightarrow 72 \times 12$

$= Rs\ 864$

according to que^n,

Total revenue = Sum of all revenue

$= 441 + 405 + 864$

$= \boxed{Rs\ 1710}$ Ans.

Hence, the total revenue generated by the shopkeeper on wednesday is Rs 1710.

www.bpscconceptwallah.com

प्रश्नों के सामने बने सही बॉक्स में Tick ☑ का निशान लगाएँ। Mark Tick ☑ in the appropriate box in front of Question No.

इस हाशिए में उम्मीदवार कुछ न लिखें Candidates should not write in this margin

e. If the number of Pens sold on Saturday is 30% more than on Thursday and the number of Notebooks is 50% more than on Tuesday, then find the total number of Pens and Notebooks sold on Saturday.

Sol: As per table,

No. of Pens sold on Thursday = 90 pens

" " Notebook " " Tuesday = 154 Notebook

Now,

As per ques:

No. of pens sold on Saturday ⇒ Pens on Thursday + 30% of pens on Thursday

$= 90 + \left(\frac{30}{100} \times 90\right)$

$= 90 + 20$

$= \boxed{117 \text{ pens}}$

No. of Notebooks sold on Saturday ⇒ Notebook on Sat + 50% of NB on Sat

$= 154 + \left(\frac{50}{100} \times 154^{77}\right)$

$= 154 + 77$

$= \boxed{231 \text{ Notebooks}}$

Now,

according to ques:

No. of total Pens & Notebook Sold on Saturday ⇒ Pen sold on Sat + NB sold on Sat

$= 117 + 231$

$= \boxed{348}$

Hence, the total no. of Pens and Notebook sold on Saturday is 348.

www.bpscconceptwallah.com


Mark Your Calendars!
Sectional Test Starts on 2nd March !
70th BPSC Mains Test Series
BPSC CONCEPT WALLAH
DON'T MISS OUT!
Enroll Now & Get 10% Off !
March 2025
M T W T F S S
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
हिंदी & English Medium
Available in both हिंदी & English Medium
Patna,Delhi
Offline Centre
Apply these coupon codes..
Test Series
70MTS10
FLTs+ Sectional
70th Mains Offline Test
Test Series
70MTS010
FLTs+ Sectional
70th Mains Online Test
BCW website
www.bpscconceptwallah.com
Call for information
9341212632 7667229306
9142695557 9113430228


Book Your Appointment With
BPSC CONCEPT WALLAH
BCW Mentors
Free
Mentorship
SCAN ME
To book Appointment Scan
For BPSC Aspirants
www.bpscconceptwallah.com
PLANNIG