

Banking Daily Quiz Blog - February 21



1. Read the data carefully and answer following questions:

Given below table shows total three types of items (A, B & C) sold by a store on five days of a week. Table also shows total type A items sold by store and percentage of items B and items C sold by store.

Note- only three types of items sold by the store.

Days	Items A	% of items B	% of items C
Monday	240	32%	20%
Tuesday	320	48%	12%
Wednesday	420	45%	20%
Thursday	360	56%	20%
Friday	340	22%	10%

- A. If total items B sold by store on Sunday is 25% more than that sold on Thursday and total items C sold on Sunday is 300% more than that sold on Friday, then find total number of items B & items C sold by store on Sunday ?

A 1250

B 1200

C 1150

D 1300

E 1000

Solution

Total items B sold by store on Sunday will be,

$$\frac{360}{24} \times 56 \times \frac{125}{100} = 1050$$

Total items C sold by store on Sunday will be,

$$\frac{340}{68} \times 10 \times \frac{400}{100} = 200$$

Hence, Total items B & items C sold by store on Sunday will be

$$= 1050 + 200 = 1250$$

B. Total items C sold by store on Wednesday is what percent more than total items C sold by store on Monday and Tuesday together?

A $20\frac{22}{49}\%$

B $22\frac{22}{49}\%$

C $22\frac{20}{49}\%$

D $22\frac{22}{47}\%$

E $22\frac{18}{49}\%$

Solution

Total items C sold on Wednesday will be $= \frac{420}{35} \times 20 = 240$

Total items C sold on Monday & Tuesday together will be.

$$\frac{240}{48} \times 20 + \frac{320}{40} \times 12$$

$$= 100 + 96 = 196$$

Hence, required percentage will be

$$\frac{240-196}{196} \times 100\% = \frac{44}{196} \times 100\% = 22\frac{22}{49}\%$$

C. Find the ratio between total items sold by store on Monday to total items sold by store on Thursday?

A 3:1

B 1:3

C 2:3

D 1:4

E 2:5

Solution

Total items sold by store on Monday will be,

$$\frac{240}{48} \times 100 = 500$$

Total items sold by store on Thursday will be,

$$\frac{360}{24} \times 100 = 1500$$

Hence, required ratio will be = $500 : 1500 = 1 : 3$

D. Find the difference between average number of items B sold by store on Tuesday & Thursday and average number of items A sold by store on Thursday & Friday.

(A) 272

(B) 252

(C) 242

(D) 262

(E) 250

Solution

As per data given in the question,

Total items B sold by store on Tuesday and Thursday together will be,

$$\left[\frac{320}{40} \times 48 \right] + \left[\frac{360}{24} \times 56 \right]$$
$$= 384 + 840 = 1224$$

Hence, Average of items B sold by store on Tuesday and Thursday together will be,

$$\frac{1224}{2} = 612$$

Total items A sold by store on Friday and Thursday together will be,

$$340 + 360 = 700$$

Hence, Average of items A sold by store on Friday and Thursday together will be,

$$= \frac{700}{2} = 350$$

Hence, required difference will be $612 - 350 = 262$

- E. Total items B sold by store on Monday & Friday together are what percent less than total items C sold by store on Wednesday & Thursday together?**

A 45%

B 40%

C 60%

D 50%

E 55%

Solution

As per data given in the question,

Total items B sold by store on Monday and Friday together will be,

$$\left[\frac{240}{48} \times 32\right] + \left[\frac{340}{68} \times 22\right]$$
$$= 160 + 110 = 270$$

Total items C sold by store on Wednesday and Thursday together will be,

$$\left[\frac{420}{35} \times 20\right] + \left[\frac{360}{24} \times 20\right]$$
$$= 240 + 300 = 540$$

Hence, required percentage will be $= \frac{270}{540} \times 100\% = 50\%$

2. Read the instruction carefully and answer the questions based on it.

In annual seminar of three companies, A, B and C some male and female employees represent their companies. Average number of female employees who represent A and B is 420. Total male employee in A and B is 1620. Number of female employees is $\frac{2}{3}$ rd and $\frac{2}{5}$ th of male employee in A and B respectively. Total female employee

who represent C are 25% more than total female employee who represent A and total male employee who represent C are $33\frac{1}{3}\%$ more than total female employee who represent B

- A. 25% of total female employee and 20% of total male employee who represent B & C together have MBA degree, then find total employee who do not have MBA degree.

A 1800

B 1724

C 1824

D 1924

E 1825

Solution

Total number of female employee who represent A and B
 $= 420 \times 2 = 840$

Let, Number of male employee who represent A = a

And, Number of male employee who represent B = b

So,

$$a + b = 1620 \dots (i)$$

$$\frac{2}{3}a + \frac{2}{5}b = 840 \dots (ii)$$

On solving (i) & (ii)

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$$a = 720, b = 900$$

So,

Number of male employee who represent A = $a = 720$

Number of female employee who represent A

$$= \frac{2}{3} \times a = \frac{2}{3} \times 720 = 480$$

Number of male employee who represent B = $b = 900$

Number of female employee who represent B

$$= \frac{2}{5} \times b = \frac{2}{5} \times 900 = 360$$

Total Female employee who represent C will be $480 \times \frac{125}{100} = 600$

Total male employee who represent C will be $360 \times \frac{4}{3} = 480$

Total employee who represent B & C who do not have MBA degree will

be,

$$(900 + 480) \times \frac{80}{100} + (360 + 600) \times \frac{75}{100} \\ = 1104 + 720 = 1824$$

B. What will be the ratio between total male employee who represent B & C together to total female employee who represent A & C together?

A 22:17

B 23:18

C 19:23

D 15:27



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Solution

Total number of female employee who represent A and B

$$= 420 \times 2 = 840$$

Let, Number of male employee who represent A = a

And, Number of male employee who represent B = b

So,

$$a + b = 1620 \dots (i)$$

$$\frac{2}{3}a + \frac{2}{5}b = 840 \dots (ii)$$

On solving (i) & (ii)

$$a = 720, b = 900$$

So,

Number of male employee who represent A = $a = 720$

Number of female employee who represent A

$$= \frac{2}{3} \times a = \frac{2}{3} \times 720 = 480$$

Number of male employee who represent B = $b = 900$

Number of female employee who represent B

$$= \frac{2}{5} \times b = \frac{2}{5} \times 900 = 360$$

Total Female employee who represent C will be $480 \times \frac{125}{100} = 600$

Total male employee who represent C will be $360 \times \frac{4}{3} = 480$

Hence, Required ratio will be

$$(900 + 480) : (480 + 600) = 1380 : 1080 = 23 : 18$$

- C. Find difference between Total male employees who represent C and total female employee who represent B.**

B 150

C 120

D 160

E 80

Solution

Total number of female employee who represent A and B

$$= 420 \times 2 = 840$$

Let, Number of male employee who represent A = a

And, Number of male employee who represent B = b

So,

$$a + b = 1620 \dots (i)$$

$$\frac{2}{3}a + \frac{2}{5}b = 840 \dots (ii)$$

On solving (i) & (ii)

$$a = 720, b = 900$$

So,

Number of male employee who represent A = $a = 720$

Number of female employee who represent A

$$= \frac{2}{3} \times a = \frac{2}{3} \times 720 = 480$$

Number of male employee who represent B = $b = 900$

Number of female employee who represent B

$$= \frac{2}{5} \times b = \frac{2}{5} \times 900 = 360$$

Total Female employee who represent C will be $480 \times \frac{125}{100} = 600$

Total male employee who represent C will be $360 \times \frac{4}{3} = 480$

Hence, Required difference = $480 - 360 = 120$

D. What will be the average number of females in B & C ?

A 400

B 440

C 480

D 450

E 420

Solution

Total number of female employee who represent A and B

$$= 420 \times 2 = 840$$

Let, Number of male employee who represent A = a

And, Number of male employee who represent B = b

So,

$$a + b = 1620 \dots (i)$$

$$\frac{2}{3}a + \frac{2}{5}b = 840 \dots (ii)$$

On solving (i) & (ii)

$$a = 720, b = 900$$

So,

Number of male employee who represent A = $a = 720$

Number of female employee who represent A

$$= \frac{2}{3} \times a = \frac{2}{3} \times 720 = 480$$

Number of male employee who represent B = $b = 900$

Number of female employee who represent B

$$= \frac{2}{5} \times b = \frac{2}{5} \times 900 = 360$$

Total Female employee who represent C will be $480 \times \frac{125}{100} = 600$

Total male employee who represent C will be $360 \times \frac{4}{3} = 480$

Hence, required average will be $\frac{360+600}{2} = \frac{960}{2} = 480$.

E. Total employees who represent A is what percent more than total male employee who represent B ?

A 33%

B $30\frac{2}{3}\%$

C $33\frac{2}{3}\%$

D $30\frac{1}{3}\%$

E $33\frac{1}{3}\%$

Solution

Total number of female employee who represent A and B

$$= 420 \times 2 = 840$$

Let, Number of male employee who represent A = a

And, Number of male employee who represent B = b

So,

$$a + b = 1620 \dots (i)$$

$$\frac{2}{3}a + \frac{2}{5}b = 840 \dots (ii)$$

On solving (i) & (ii)

$$a = 720, b = 900$$

So,

Number of male employee who represent A = $a = 720$

Number of female employee who represent A

$$= \frac{2}{3} \times a = \frac{2}{3} \times 720 = 480$$

Number of male employee who represent B = $b = 900$

Number of female employee who represent B

$$= \frac{2}{5} \times b = \frac{2}{5} \times 900 = 360$$

Total Female employee who represent C will be $480 \times \frac{125}{100} = 600$

Total male employee who represent C will be $360 \times \frac{4}{3} = 480$

So,

Total employee who represent A = $720 + 480 = 1200$

Hence, required percentage will be

$$= \frac{1200-900}{900} \times 100\% = \frac{300}{900} \times 100\% = 33\frac{1}{3}\%$$

