Date Interpretation Table Chart Questions for Bank Clerk Mains Exams.

DI Table Chart Quiz 36

Direction: Study the following table carefully and answer the questions based on it.

Person	No. of days they worked	Percentage of work done to complete the project
A	8	20%
B	3	10%
C	6	25%
D	15	30%
E	6	15%

1. A and B started doing the work. After 10 days they both left, and C joined the work. He completed his part of work. Now the remaining work was completed by F in 16 days. In how many days can F complete whole work?

A. 30 days B. 96 days C. 48 days D. 24 days E. None of these

2. G who can complete whole work in 30 days replaced A and did A's part of work. He left and then B also worked for same number of days as G. If remaining work was completed by M who can do complete work in one-fourth the number of days in which E can complete the work, then in how many days was the whole work completed?

A. 22 days B. 14 days C. 21 days D. 18 days E. 12 days

3. If all people divides the work equally. In how many days will the work be completed this way?

A. 20 days B. 36.8 days C. 38 days D. 26.8 days E. None of these

4. P is 20% more efficient than B and Q is 60% more efficient than C. They worked together for 5 days and left the work, after which the remaining work was completed by D in ?

A. 23 days B. 15 days C. $23\frac{1}{3}$ days D. $26\frac{1}{3}$ days E. None of these

5. A shopkeeper can buy goods at the rate of Rs. 20 per good. The particular good is part of an overall collection and the value is linked to the number of items that are already on the market. So, the shopkeeper sells the first good for Rs. 2, second one for Rs. 4, third for Rs. 6…and so on. If he wants to make an overall profit of at least 40%, what is the minimum number of goods he should sell?

A. 24 B. 18 C. 27 D. 32 E. None of these

Correct Answers:

1	2	3	4	5
B	D	B	C	C

Explanations:

1. A does 20% work in 8 days.

So, 100% work in $100 \times \frac{8}{20} = 40$ days

B does 10% work in 3 days

So, 100% work in $100 \times \frac{3}{10} = 30$ days

1 day work of A and B together is:-

So, $\frac{1}{40} + \frac{1}{30} = \frac{7}{120}$

So in 10 days they completed 7/12 part of the work

Now, C completed $25\% = \frac{1}{4}$ of work

So now remaining work

$= 1 - \left(\frac{7}{12} + \frac{1}{4}\right) = \frac{1}{6}$

F complete $\frac{1}{6}$ work in 16 days,

So complete work in 96 days.

Hence, option (B) is correct.

2.

A's part of work = 20% = $\frac{1}{5}$

So, G did 1/5 of work and whole work in 30 days,

$\Rightarrow \frac{1}{5}$ work in $\frac{1}{5} \times 30 = 6$ days

Now, B also worked for 6 days.

B can complete 10% of work in 3 days.
So, B can complete the whole work in taken time

$= 100 \times \frac{3}{10}$

$= 30$ days

So, in 6 days,

B completed $\frac{6}{30} = \frac{1}{5}$ of work

Now, remaining work

$= 1 - \left(\frac{1}{5} + \frac{1}{5}\right) = \frac{3}{5}$

Now, E can complete 15% of work in 6 days.
So, E can complete the whole work in taken time

$= 100 \times \frac{6}{15}$

$= 40$ days

M can complete the work in 1/4th of No. of days of E.

$= \frac{1}{4} \times 40$

$= 10$ days.

So, M completed 3/5 work in taken time

$= \frac{3}{5} \times 10 = 6$ days

Hence, total number of days

$= 6 + 6 + 6$

$= 18$

Therefore, option D is correct.

3. People equally divided the work so each did 1/5 work now

A does 1/5th work in 8 days

B does 1/10th (10%) work in 3 days
⇒ 1/5th of work in 6 days

C does 1/4th (25%) work in 6 days
⇒ 1/5th work in 4.8 days

D does 3/10th (30%) work in 15 days
⇒ 1/5th work in 10 days

E does 3/20th (15%) work in 6 days
⇒ 1/5th work in 8 days

Hence, total work completed in = 8 + 4.8 + 6 + 10 + 8 = 36.8 days
Therefore, option B is correct.

4. B can complete 10% of work in 3 days.
So, B can complete the whole work in

$$100 \times \frac{3}{10} = 30 \text{ days}$$

As P is 20% more efficient than B
⇒ P can complete the work in 25 days
C can complete 25% of work in 6 days.
So, C can complete the whole work in

$$100 \times \frac{6}{25} = 24 \text{ days}$$

As Q is 60% more efficient than B
⇒ Q can complete the work in 15 days
Now, P & Q worked for 5 days,

$$\Rightarrow \frac{5}{25} + \frac{5}{15} = \frac{8}{15}$$

$$\text{Remaining work} = 1 - \frac{8}{15} = \frac{7}{15}$$

D can complete 30% of work in 15 days.
So, D can complete the whole work in

$$100 \times \frac{15}{30} = 50 \text{ days}$$

So, D does $7/15^{th}$ of work in

$$50 \times \frac{7}{15} = 23\frac{1}{3} \text{ days}$$

Hence, option C is correct.

5. Let us assume he buys n goods.

Total CP = 20n

Total SP = 2 + 4 + 6 + 8 ….n terms

Total SP should be at least 40% more than total CP

$2 + 4 + 6 + 8$ ….n terms $\geq 1.4 \times 20\ n$

$2\ (1 + 2 + 3 +$ ….n terms$) \geq 28n$

Sum of n – terms $= \frac{\{n\ (n + 1)\}}{2}$

$n\ (n + 1) \geq 28n$

$n^2 + n \geq 28n$

$n^2 - 27n \geq 0$

$n \geq 27$

He should sell a minimum of 27 goods.

Hence, option (C) is correct.