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DI Info Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, SBI PO Pre and IBPS PO Pre Exams.

DI Info Chart No 38

Directions: Study the following information carefully and answer the questions given beside.

Five persons A, B, C, D and E were employed to complete a piece of work.

⇒ All the five persons A, B, C, D and E worked for different number of days, i.e. 5, 4, 4, 4 and 'n' days respectively.

⇒ The percentage of work done by A, B, C and E is 25%, 20%, 10% and 20% respectively and the remaining percentage of work is done by D.

1. In how many days, A and D will do the whole work?

A. $\frac{80}{9}$ days B. $\frac{73}{9}$ days C. $\frac{70}{9}$ days D. $\frac{86}{9}$ days E. None of these

2. B and E together do the work in 100/11 days. In how many days E can do the whole work alone?

A. $\frac{20}{3}$ days B. $\frac{50}{3}$ days C. 25 days D. $\frac{100}{3}$ days E. 15 days

3. A & B, B & C, C & D do the work in the given combination and order as given respectively and the cycle repeats, then in how many days 40% work will be done?

A. 5.50 days B. 3.25 days C. 4.50 days D. 7.25 days E. None of these

4. 20% of the work was done by A and B, then 50% of the left work was done by D and at last the rest of work was done by B and C. Find the number of total days taken to do the whole work.

A. 15 days B. 16.43 days C. 13.73 days D. 12.5 days E. 14.48 days

5. F alone takes 15 more days than A alone to complete the whole work. If F works with 50% more efficiency, then in how many days he can do the whole work alone?

A. $\frac{78}{5}$ days B. $\frac{76}{3}$ days C. $\frac{73}{5}$ days D. $\frac{70}{3}$ days E. None of these

Correct Answers:

1	2	3	4	5
A	B	C	C	D

Answers :

1. A does 25% of work in 5 days, 100% work will be done in 20 days

D does [100 – (25 + 20 + 10 + 20)] = 25% of work in 4 days, 100% work will be done in 16 days

Total work = LCM (20, 16) = 80 units

A does = $\frac{80}{20}$ = 4 units/day

D does = $\frac{80}{16}$ = 5 units/day

A + D = 4 + 5 = 9 units/day

So, total work will be done in = $\frac{80}{9}$ days

Hence, option A is correct.

2. B does 20% work in 4 days then, 100% will be done in 20 days.

Let the total amount of work be 100 units.

B does 5 units/day.

B + E = $\frac{100}{100/11}$ units/day = 11 units/day

E does (11 – 5) = 6 units/day

The reqd. answer = $\frac{100}{6} = \frac{50}{3}$ days

Hence, option B is correct.

3. A's efficiency 20 days to do whole work

B's efficiency 20 days to do whole work

C's efficiency 40 days to do whole work

D's efficiency 16 days to do whole work

Total units of work = LCM(20, 20, 40, 16) = 80 units

A = 4 units/day

B = 4 units/day

C = 2 units/day

D = 5 units/day

40% of whole work is = 80 × 0.4 = 32 units

A + B = 4 + 4 = 8 units/day

B + C = 4 + 2 = 6 units/day

C + D = 2 + 5 = 7 units/day

Now left amount of target work after 3 days = 32 – (8 + 6 + 7) = 11 units

4th day work done = A + B = 8, so left = 11 – 8 = 3

So the next 3 units will be done by B and C together in haf day only.

The required answer is = 4.5 days

Hence, option C is correct.

4. A, B, C and D separately can do the work in 20, 20, 40 and 16 days respectively.

Total work = LCM (20, 20, 40, 16) = 320 units [For ease of calculation 320 is taken as LCM and not 80]

A = 16 units/day

B = 16 units/day

C = 8 units/day

D = 20 units/day

A + B = 16 + 16 = 32 units/day

B + C = 16 + 8 = 24 units/day

20% work will be done in

$= \frac{(320 \times 20/100)}{32}$ = 2 days (by A and B)

50% of the left work will be done in

$= \frac{320 - 64}{2} = \frac{128}{20}$ = 6.4 days (by D)

Rest is done = $\frac{128}{24}$ = 5.33 days (by B and C)

The answer is = 2 + 6.4 + 5.33 = 13.73 days

Hence, option C is correct.

5. A needs 20 days to do whole work

∴ F will take 35 days to do the whole job.

With 150% of his efficiency = $\frac{35 \times 100}{150} = \frac{70}{3}$ days

Hence, option D is correct.

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