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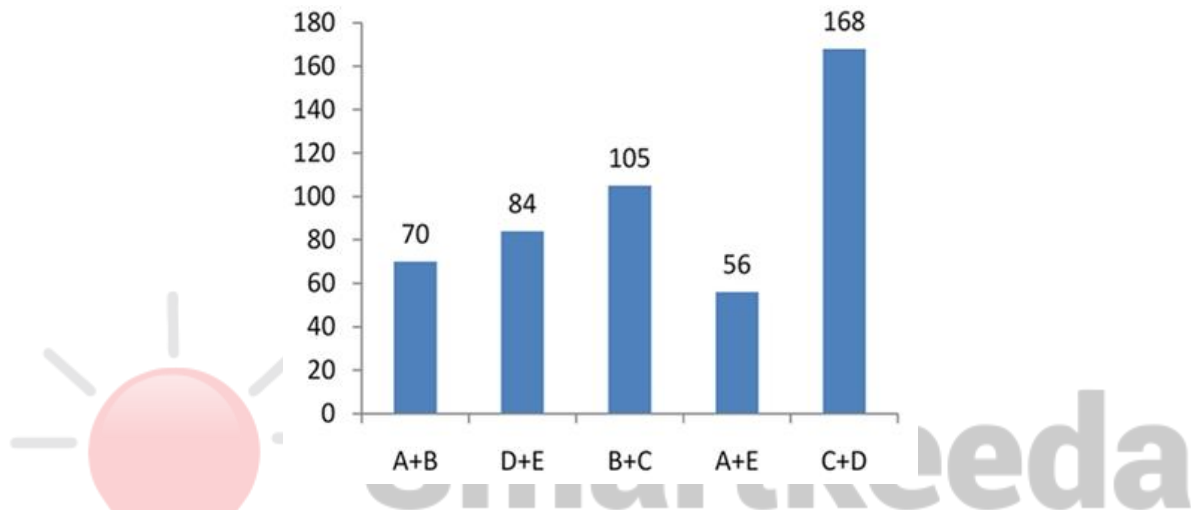
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DI Bar Chart Questions for IBPS RRB Clerk Mains, IBPS Clerk Mains, SBI Clerk Mains, IBPS PO Pre and SBI PO Pre Exams.

DI Bar Chart No.78

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

Five workers A, B, C, D and E are hired to do a certain piece of work. The bar graph given below shows the time taken (in days) by a pair of workers to complete the work.



- 1. A is how much percent less/more efficient than B?**
A. 20% more B. 20% less C. 40% more D. 50% more E. 30% more
- 2. In how many days B, D and E working together can complete 75% of work?**
A. 35 days B. 42 days C. 50 days D. 56 days E. None of these
- 3. In how many days, the work is completed if B and D worked for alternate days starting with B?**
A. 160 days B. 200 days C. 240 days D. 280 days E. None of these
- 4. A, C and E together completed the work for which they received a total of Rs. 13, 950. Find the share of E.**
A. Rs. 5425 B. Rs. 5750 C. Rs. 6000 D. Rs. 6200 E. None of these
- 5. A and D started working together, but after 20 days A is replaced by B and D is replaced by E. After 20 more days E is replaced by C. In how many days the whole work is completed?**
A. 95 days B. 80 days C. 90 days D. 85 days E. 100 days

Correct Answers:

1	2	3	4	5
C	B	C	D	C



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Explanations :

1. Let the total work = 840 units (LCM of 70, 84, 105, 56 and 168)

Amount of work done by A and B together in one day = $840/70 = 12$ units

Amount of work done by D and E together in one day = $840/84 = 10$ units

Amount of work done by B and C together in one day = $840/105 = 8$ units

Amount of work done by A and E together in one day = $840/56 = 15$ units

Amount of work done by C and D together in one day = $840/168 = 5$ units

Amount of work done by A, B, C, D and E together in one day = $(12 + 10 + 8 + 15 + 5)/2 = 25$ units

Amount of work done by A alone in one day = $25 - 8 - 10 = 7$ units

Amount of work done by B alone in one day = $25 - 15 - 5 = 5$ units

Amount of work done by C alone in one day = $25 - 12 - 10 = 3$ units

Amount of work done by D alone in one day = $25 - 15 - 8 = 2$ units

Amount of work done by E alone in one day = $25 - 12 - 5 = 8$ units

So, required percentage = $(7 - 5)/5 \times 100 = 40\%$

So option (C) is the correct answer.

2. Time taken by B, D and E together to complete 75% of work

$$= \frac{(0.75 \times 840)}{5 + 2 + 8} = 42 \text{ days}$$

Hence, Option B is correct.

3. Amount of work done in 2 days = $5 + 2 = 7$ units

So, time taken to complete the work

$$= \frac{2 \times 840}{7} = 240 \text{ days}$$

Hence, Option C is correct.

4. Ratio of the wages of A, C and E = 7: 3: 8

So, the share of E = $\frac{8}{18} \times 13950 = \text{Rs. } 6200$

Hence, Option D is correct.

5. Total work done in first 20 days = $20 \times 9 = 180$ units

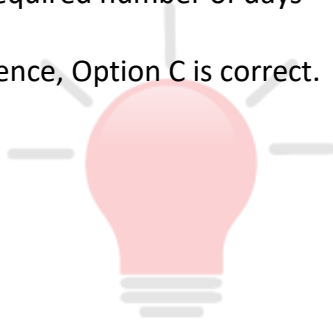
Total work done in next 20 days = $20 \times 13 = 260$ units

Remaining work = $840 - 180 - 260 = 400$ units

Time taken to complete remaining work = $\frac{400}{8} = 50$ days

Required number of days = $20 + 20 + 50 = 90$ days

Hence, Option C is correct.



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