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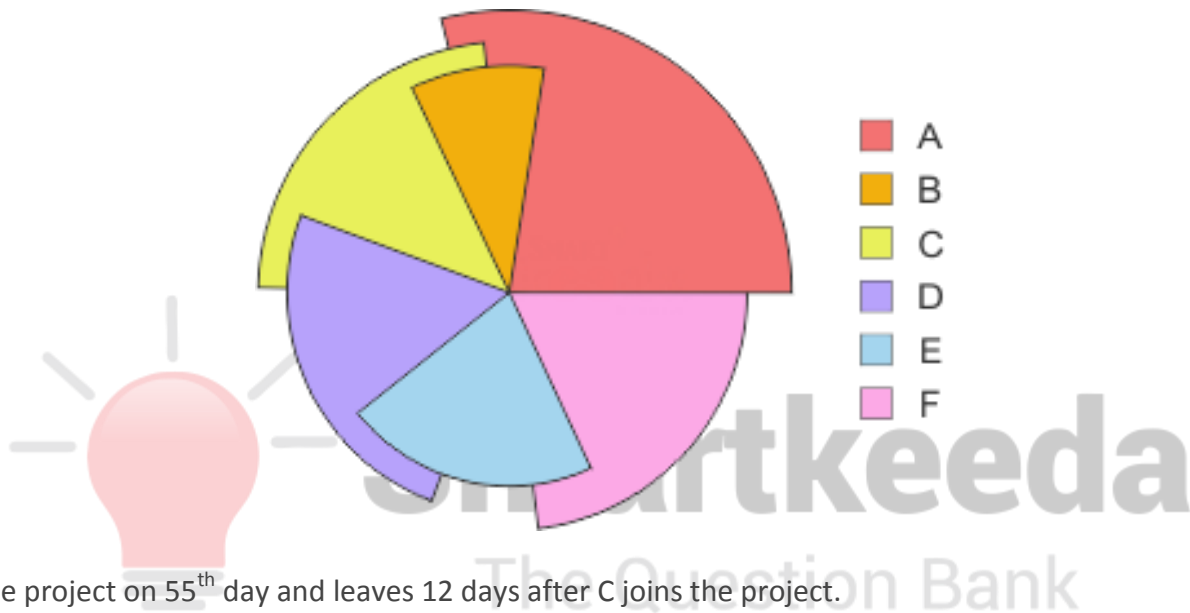
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DI Pie Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

DI Pie Chart No 55

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

The chart given below shows the time for distribution of time for which Six persons work on a project. A starts the work and 240 days later F completes the work.



B joins the project on 55th day and leaves 12 days after C joins the project.

A, B and C work together for 5 days. F works alone for 17.5% of the total project time period.

D works with E for 75% more time than he works with C.

A left the project 79 days before E joined.

D joins the work on 108th day and he works alone for 28 days.

E left 121 days after B left the project.

For $\frac{4}{17}$ fraction of his time E works with F.

(Imp Note: If A leaves 2 days before B or B leaves 2 days after A. Then if B leaves on 13th day, then A leaves on 11th day. Likewise, If B leaves 2 days after C joins, then If C joins on 14th day then B leaves on 16th day.

1. What is the central angle (in degrees) for the period that represents the time for which B works on the project?

- A. 32 B. 28.5 C. 27 D. 34.5 E. None of these

2. What is the sum of the total number of days for which B and C work together and the time for which C and D work together?

- A. 25 B. 32 C. 21 D. 20 E. 18

3. What is the sum of the central angle of the time period when exactly two persons were working together on the project?

- A. 88° B. 94.5° C. 102° D. 97.5° E. 91°

4. F joins 'X' days after C and D stop working together. What is the value of X?

- A. 71 B. 69 C. 67 D. 65 E. 68



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Correct Answers:

1	2	3	4
D	A	B	E

Common Explanation:

Total time period of the work = 240 days

B joins on 55th day, so A works alone for the first 54 days.

B leaves 12 days after C joins the project

So, B and C work together for $12 + 1 = 13$ days and A, B and C work together for 5 days

So, Just B and C work together (without A) for $13 - 5 = 8$ days

F works alone for 17.5% of the total project time period.

F works alone for $17.5\% (240) = 42$ days

A left the project 79 days before E joined.

So, there is a gap of 78 days between the leaving of A and Joining of E

E left 121 days after B left the project.

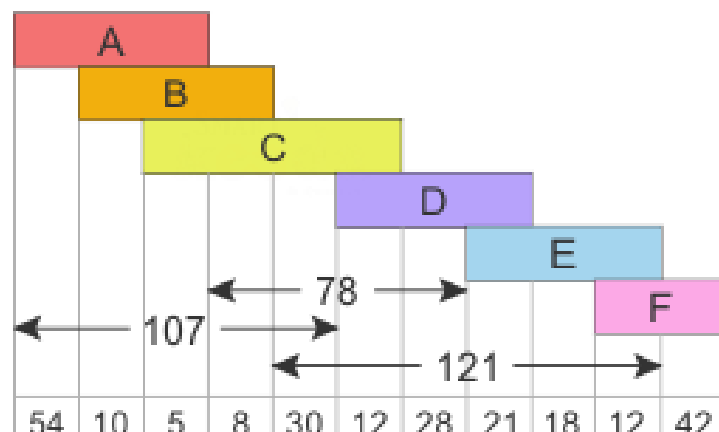
So, there is a gap of 121 days between leaving of B and leaving of E.

D joins the work on 108th day and he works alone for 28 days.

So, D joins after 107 days of work has been done.

D works alone for 28 days.

Plotting the known values in image we get:



We can find the time for which C works alone, = $107 + 121 + 42 - 240 = 30$ days

Time for which C and D work together = $78 - (8 + 30 + 28) = 12$ days

Time for which just A and B work together (without C) = $107 - (54 + 5 + 8 + 30) = 10$ days

D works with E for 75% more time than he works with C.

$$DE = \frac{175}{100} \times DC$$

$$DE = \frac{7}{4} \times 12 = 21 \text{ days}$$

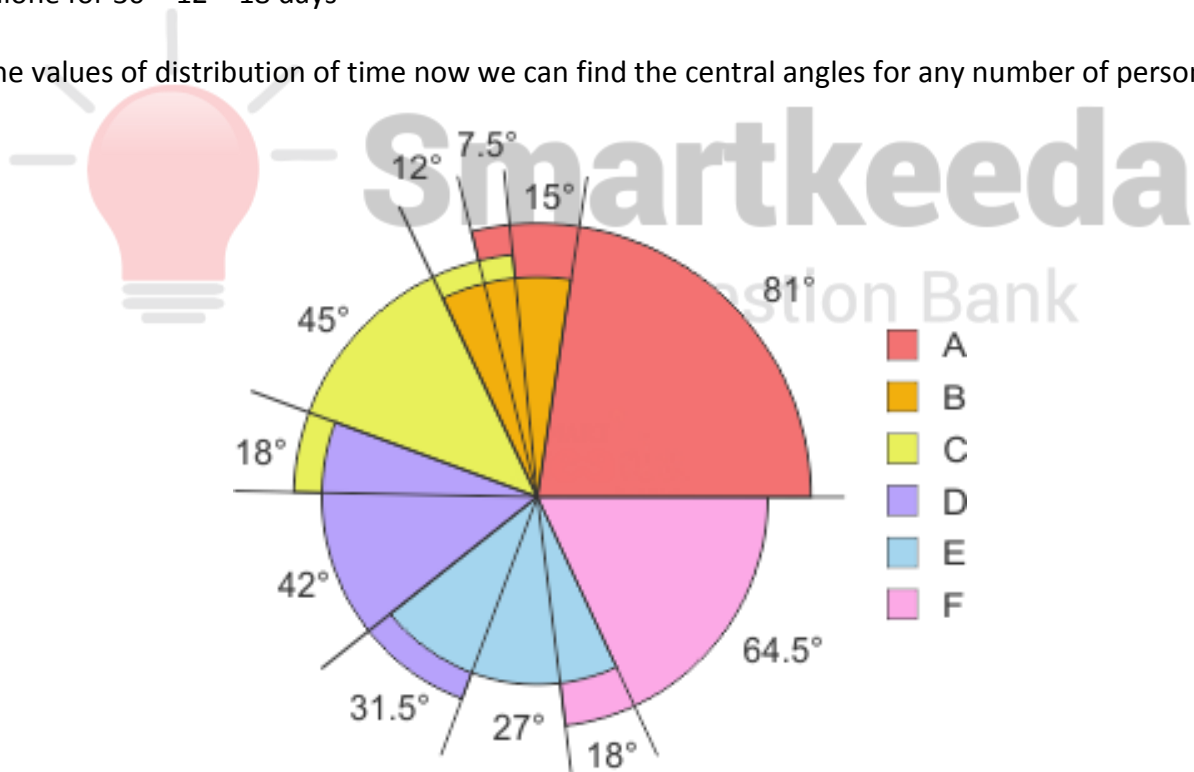
For $\frac{4}{17}$ fraction of his time E works with F.

Time for which E works = $121 - (30 + 12 + 28) = 51$ days

$$F \ \& \ E \ \text{work for } \frac{4}{17} \times 51 = 12 \text{ days}$$

E works alone for $30 - 12 = 18$ days

We get the values of distribution of time now we can find the central angles for any number of persons.



Answers :

1. From the common explanation, we have

$$\text{Required angle} = 15 + 7.5 + 12 = 34.5^\circ$$

Hence, option D is correct.

2. From common explanation, we have

$$\text{Required sum} = 5 + 8 + 12 = 25$$

Hence, option A is correct.

3. From common explanation, we have

$$\text{Required sum} = 15^\circ + 12^\circ + 18.5^\circ + 31.5^\circ + 18^\circ = 94.5^\circ$$

Hence, option B is correct.

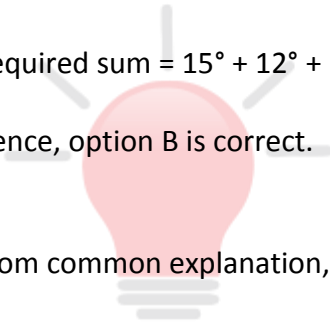
4. From common explanation, we have

$$\text{Number of days gap between ending of C \& D working together and Joining of F} = 28 + 21 + 18 = 67$$

So, F joins the work $67 + 1$ days after C and D stop working together

$$\text{Required number of days} = 68$$

Hence, option E is correct.



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