



Bipin Nambiar
(SBI PO 2018)



Shiraz Khan
(SBI Clerk 2018)



Kuldeep Yadav
(SBI PO 2018)



Rajat Saxena
(IBPS Clerk 2018)



Anupam Tyagi
(IBPS PO 2018)

FRIENDS!
WE USED **TESTZONE**
AND CRACKED BANK EXAMS

बैंक परीक्षाओ के लिए निश्चित
रूप से सर्वश्रेष्ठ मॉक
टेस्ट सीरीज

IT'S YOUR TURN NOW
TAKE A **FREE** MOCK TEST



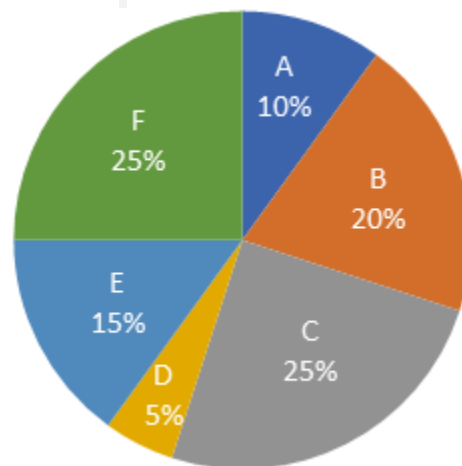
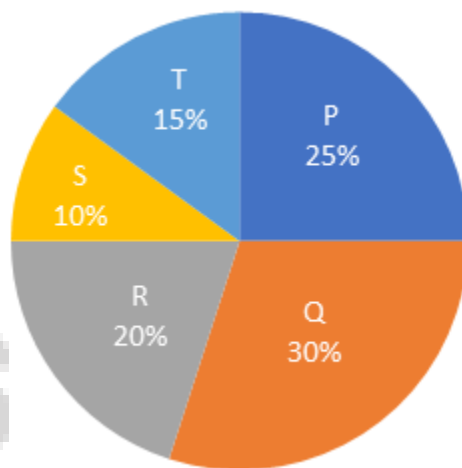
Smartkeeda
The Question Bank

Date Interpretation Pie Chart Questions for SBI PO, IBPS PO and RBI Grade B Exams.

DI Pie Chart Quiz 35

Directions: Study the following pie charts carefully & answer the questions given below it.

A complete work is divided into 6 parts P, Q, R, S and T. The pie chart 1 shows the distribution of each part. The pie chart 2 shows the percentage of the P part of the work can be completed by 6 individuals A, B, C, D, E, and F in an equal time.



1. If all the six persons work together then they can complete the whole work in 100 days. Suppose for the first 50 days all work together but after 50 days A, C, and E left the work then in how many days the remaining work will be completed?

- A. $85\frac{25}{87}$ days B. $84\frac{25}{87}$ days C. $83\frac{55}{87}$ days D. $85\frac{25}{87}$ days E. None of these

2. If all the six persons started working together but they were divided into two parts. A, B, and C work together to complete Q part of the work whereas D, E, and F work together to complete R part of the work. Then approximately in how many days they will complete Q and R parts of the whole work? (it is given that C alone can complete Q and R parts of the whole work in 250 days)

- A. 44.5 days B. 38.5 days C. 49.5 days D. 47.5 days E. 51.5 days

3. Suppose, all of them started working together to complete the whole work but after 10 days from starting A left the work permanently, after next 10 days B left the work permanently, again after next 10 days C left the work permanently. After C left D, E, and F work till the completion of work. In this way, the work is completed in 130 days. Find the number of days A would have taken if he had worked alone?

- A. $435\frac{2}{3}$ days B. $416\frac{2}{3}$ days C. $430\frac{2}{3}$ days D. $426\frac{1}{3}$ days E. None of these

4. If all of the six persons work together then they can complete the P part of the whole work in 125 days. Find the difference between the number of days taken by them if A, B, and C work together to complete the entire work and D, E, and F work together to complete the entire work? (approximately)

- A. 399 days B. 497 days C. 427 days D. 543 days E. 513 days

5. What part of the work is completed by A if he works alone for the same number of days taken by B, C, D, E and F together to complete the whole work?

- A. 32.32% B. 27.29% C. 25.21% D. 29.41% E. 31.43%

Correct Answers:

1	2	3	4	5
A	A	C	B	C

For more PDFs join
us on Telegram

[CLICK HERE](#)



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

Explanation:

1. From the chart 2, The time taken by A to complete 10% of P = The time taken by B to complete 20% of P = The time taken by C to complete 25% of P = The time taken by D to complete 5% of P = The time taken by E to complete 15% of P = The time taken by F to complete 25% of P

The ratio of the work, = A : B : C : D : E : F = 10% of p : 20% of p : 25% of p : 5% of p : 15% of p : 25% of p
= 2 : 4 : 5 : 1 : 3 : 5

Therefore, the ratio of their efficiency = 30 : 15 : 12 : 60 : 20 : 12

The total efficiency when all the six persons work together = $30x + 15x + 12x + 60x + 20x + 12x = 149x$

According to the question, when all six persons work together then they can complete the whole work in 100 days therefore let the total work = $100 \times 149x$ units

In 50 days, the total units of work done = $149x \times 50$ units

Remaining work = $149x \times 50$ units

Now, only B, D, and F work together to complete $149x \times 40$ units of work

The efficiency of B + D + F = $15X + 60X + 12X = 87X$

The total number of days B + D + F will take to do

$$149x \times 50 \text{ units of work} = \frac{149x \times 50}{87x} = \frac{149 \times 50}{87}$$

$$= \frac{7450}{87} \text{ days} = 85 \frac{55}{87} \text{ days}$$

Hence, option A is correct.

**For more PDFs join
us on Telegram**

CLICK HERE



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

2. The efficiency of C = $12x$

From the question, C alone Q and R part of the whole work in 250 days, Q + R part of the whole work = 30% + 20% of the whole work = 50% of the whole work in 250 days

Therefore, C alone can do the whole work in 500 days

Therefore, The total work = $12x \times 500$ units

Q parts = 30% of $12x \times 500 = 1800x$

Efficiency of A + B + C = $30x + 15x + 12x = 57x$

The total number of days taken by A + B + C TO DO 1800x units of work

$$= \frac{1800x}{57x} = \text{approximately } 31.5 \text{ days}$$

R parts = 20% of $12x \times 500 = 1200x$

The efficiency of D + E + F = $60x + 20x + 12x = 92x$

The total number of days taken by D + E + F to do 1200x units of work

$$= \frac{1200x}{92x} = 13 \text{ days}$$

The total number of days taken by them to do Q and R parts of the whole work = $31.5 + 13 = 44.5$ days

Hence, option A is correct.

3. In the first 10 days, the total units of work done by A + B + C + D + E + F = $(30x + 15x + 12x + 60x + 20x + 12x) \times 10 = 149x \times 10$ units

In the next 10 days the total units of work done by B + C + D + E + F = $(15x + 12x + 60x + 20x + 12x) \times 10 = 119x \times 10$ UNITS

Again, in the next 10 days the total units of work done by C + D + E + F = $(12x + 60x + 20x + 12x) \times 10 = 104x \times 10$ units

Now onwards, only D + E + F work till the last day therefore, the total units of work done by D + E + F in the next $(130 - 30) = 100$ days = $(60x + 20x + 12x) \times 100 = 92x \times 100$

Total units of work = $1490x + 1190x + 1040x + 9200x = 12920x$ units

The efficiency of A = $30x$

Therefore, the total time taken by A alone to do 12920x units of work

$$= \frac{12920x}{30x} = \frac{1292}{3} \text{ days} = 430 \frac{2}{3} \text{ days}$$

Hence, option C is correct.

4. P parts of the whole work = 25% of the whole work they all together can complete in 125 days therefore 100% of the whole work = the whole work they can complete in $125 \times 4 = 500$ days

The total units of work = $(30x + 15x + 12x + 60x + 20x + 12x) \times 500 = 149x \times 500$ units

The number of days taken by A + B + C together to do $149x \times 500$ units of work = $149x \times 500 / 57x$ days = 1307 days approximately

The number of days taken by D + E + F together to do $149x \times 500$ units of work = $149x \times 500 / 92x$ days = $809.78 = 810$ days approximately

The required difference = $1307 - 810 = 497$ days

Hence, option B is correct.

5. The efficiency of A = $30x$

And the efficiency of B + C + D + E + F = $119x$

The reqd. % = $\frac{30x \times 100}{119x} = 25.21\%$

Hence, option C is correct.

**For more PDFs join
us on Telegram**

CLICK HERE



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS



SmartKeeda

The Question Bank

Presents

TestZone

India's least priced Test Series platform



ALL BANK EXAMS

2020-2021 Test Series

@ Just

₹ 599/-

300+ Full Length Tests

- Brilliant Test Analysis
- Excellent Content
- Unmatched Explanations

JOIN NOW