



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 परीक्षाओं के लिए निश्चित  
रूप से सर्वश्रेष्ठ मॉक  
टेस्ट सीरीज

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



**Smartkeeda**  
The Question Bank

# Time and Work Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

## Time n Work Quiz 15

Directions: Read the following questions carefully and choose the right answer.

1. 3 workers Peroola, Rahul and Prashant can complete a piece of work in 6 days. Peroola takes 15 days less than Rahul to complete the same work. Find in how many days will Prashant complete the whole work alone with 75% of his original efficiency, if Rahul can complete the work alone in 35 days?

- A.  $\frac{560}{37}$  days      B.  $\frac{499}{36}$  days      C.  $\frac{361}{17}$  days      D.  $\frac{555}{43}$  days      E. None of these

2. Three persons A, B, and C complete a piece of work in 6 days for which they are paid a sum of Rs. 480. If the efficiency of A, B and C are in ratio 4 : 5 : 7, then find the daily income of B?

- A. Rs. 25      B. Rs. 30      C. Rs. 150      D. Rs. 20      E. None of these

3. Rashmi and Pallavi can make a carpet in 3 days and 12 days more than the time taken if both of them worked together. Find the time in which Rashmi can make the carpet alone.

- A. 9 days      B. 6 days      C. 12 days      D. 8 days      E. None of these

4. Three workers Trump, Putin and Jinping are appointed to do a job. They together started the job but Jinping left after 3 days when 37% of the job was done. The remaining job was completed by Trump and Putin in 7 days. The ratio of efficiency of Trump and Putin is 4 : 5. Find the number of days required by the slowest worker to complete the entire job alone?

- A. 22 days      B. 20 days      C. 24 days      D. 18 days      E. 30 days

5. A group of men decided to do a job in 4 days, but 20 men dropped out everyday. Find the number of men who initially decided to do the job, if job was completed in 7 days?

- A. 70      B. 110      C. 140      D. 120      E. None of these

6. Two male workers A and B can complete a piece of work in 20 and 35 hours respectively. A female worker, C can complete the whole work alone in H hours with

three - fourth of her original efficiency. If all the three working together with their usual efficiency can complete the whole work in 6 hours, then find the value of H.

- A.  $\frac{460}{37}$  days      B.  $\frac{560}{27}$  days      C.  $\frac{460}{17}$  days      D.  $\frac{560}{37}$  days      E. None of these

7. Raj can do a piece of work in 20 days and Rohan can do it in 12 days. On which date will they complete the work, if they work together on prime number dates starting on 29<sup>th</sup> April?

- A. 7<sup>th</sup> May      B. 17<sup>th</sup> May      C. 13<sup>th</sup> May      D. 23<sup>rd</sup> May      E. None of these

8. To do a certain task Bhuvan would take 3 times as long as Abir and Varun together; and Varun would takes 4 times as long as Abir and Bhuvan together. Three of them together can complete the task in 5 days. How much time is taken by Bhuvan and varun to complete the task?

- A.  $14\frac{1}{2}$  days      B.  $13\frac{1}{3}$  days      C. 12 days      D.  $11\frac{1}{9}$  days      E.  $10\frac{1}{3}$  days

9. If 5 men and 5 women work together then they can finish a work in 5 days but if 5 women work alone then they take  $\frac{40}{3}$  more days than the time required by 5 men. Find efficiency of one woman is how much percentage less than one man?

- A. 60%      B. 66.66%      C. 40%      D. 62.5%      E. None of these

10. A can do  $\frac{3}{5}$ <sup>th</sup> of work in 15 days. Efficiency of B is 25% more than that of A. Both A and B started working together and left the work after five days. C completed the remaining work in 11 days. Efficiency of C is what percent more/less than that of A ?

- A. 20% less      B. 25% more      C. 20% more      D. 25% less      E. 33.33% more

For more PDFs join us on Telegram

CLICK HERE



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

Correct Answers:

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

A	A	A	E	C	D	B	D	B	B
---	---	---	---	---	---	---	---	---	---

**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

## Explanations:

1. Peroola + Rahul + Prashant = 6  
Rahul = 35  
Peroola = (35 - 15) = 20  
Total units of work = 420  
(Peroola + Rahul + Prashant)'s one day work = 70 units  
Peroola's one day work = 21 units  
⇒ Rahul = 12 units  
Prashant's one day work = 70 - 33 = 37 units  
Prashant's efficiency to do the work alone =  $\frac{75}{100} \times 37$   
Time required to complete the work =  $\frac{420 \times 4}{37 \times 3} = \frac{560}{37}$  days  
Hence, option A is correct.

2. Total amount earned by A, B, and C in 6 days = Rs 480

The amount earned by them in 1 day =  $\frac{480}{6} = \text{Rs } 80$

Amount of money earned is proportional to the amount of work done

Let work done by A, B and C be  $4x$ ,  $5x$  and  $7x$ .

∴ Total work done by A, B and C together =  $16x$

Work done by B =  $5x$

Daily income of B =  $\frac{5x}{16x} \times 80 = \text{Rs. } 25$

Hence, option A is correct.

3. Let the time both of them together will take to make the carpet be  $x$  days

Time taken by Rashmi alone =  $x + 3$  days

Time taken by Pallavi alone =  $x + 12$  days

One day work when they both work together = Sum of their individual per day work

$$\frac{1}{x} = \frac{1}{x+12} + \frac{1}{x+3}$$

$$\frac{1}{x} = \frac{2x+15}{x^2+15x+36}$$

$$x^2 + 15x + 36 = 2x^2 + 15x$$

$$x = 6$$

Time taken by Rashmi to make carpet alone =  $6 + 3 = 9$  days

Hence, option A is correct.

4. Let  $x$ ,  $y$  and  $z$  are the one day's work of Trump, Putin and Jinping respectively.

According to the question,

$$\Rightarrow 3 \times (x + y + z) = 37\% \text{ of the work}$$

$$\Rightarrow 7 \times (x + y) = 63\%$$

$$\Rightarrow x + y = 9\%$$

$\therefore$  The ratio of efficiency of Trump and Putin is 4 : 5,

$\therefore 5x = 4y$  and  $x = 4\%$ ,  $y = 5\%$  work per day.

It implies Trump can complete the job and in 25 days and Putin in 20 days.

In 3 days  $(x + y + z)$  do 37% of the work

Out of this Trump and Putin would do 27% work =  $(3 \times 9\%)$  of the work.

Remaining work =  $37\% - 27\% = 10\%$  (done by Jinping in 3 days)

$\therefore$  The work of  $z = \frac{10}{3} = 3.33\%$  work per day

$\therefore$  Jinping is the slowest and he would do the work in 30 days.

Hence, option E is correct.

5. Let the initial number of men be  $m$

Total work = 4 m

$$m + (m - 20) + (m - 40) + \dots = 4 m$$

$$\frac{7}{2} [2m + 6(-20)] = 4m$$

$$\frac{7}{2} (2m - 120) = 4m$$

$$m = 140$$

Hence, option C is correct.

6. Total units of work = 420

(A + B + C)'s one hour's work = 70 units

A's one hour's work = 21 units

⇒ B = 12 units

C's one hour's work = 70 – 33 = 37 units

C's efficiency to do the work alone =  $3 \times \frac{37}{4}$

∴ Time reqd. to complete the work =  $420 \times \frac{4}{37 \times 3} = \frac{560}{37}$  hours

Hence, option D is correct.

7. Total work = 60 {LCM of 20, 12}

A/day = 3; B/day = 5; together = 8/ days = No. of days = 7.5 days

8<sup>th</sup> prime number date starting from 29<sup>th</sup> April

29<sup>th</sup> April, 2<sup>nd</sup> May, 3<sup>rd</sup> May, 5<sup>th</sup> May, 7<sup>th</sup> May, 11<sup>th</sup> May, 13<sup>th</sup> May, 17<sup>th</sup> May

Hence, option B is correct.

8. Let us represent efficiency of Abir, Bhuvan and Varun by A, B and V respectively.

According to the question,

$$\frac{B}{A + V} = \frac{1}{3} \dots\dots\dots(1)$$

$$\frac{V}{A + B} = \frac{1}{4} \dots\dots\dots(2)$$

To equate the ratio in the above equations, let us multiply (1) by 5 and (2) by 4.

So, A : B : V = 11 : 5 : 4

11 + 5 + 4 = 20 units

In 5 days, task completed = 20 × 5 = 100 units (total task)

Time taken by Bhuvan and Varun to complete the task

$$= \frac{100}{4 + 5} = 11 \frac{1}{9} \text{ days}$$

Hence, option D is correct.

9. Let the days taken by  $5W = x$  and  $5M = y$ .

One day work of  $5W = \frac{1}{x}$  and that of  $5M = \frac{1}{y}$

$$\frac{1}{x} + \frac{1}{y} = \frac{1}{5}$$

$$5(x + y) = xy \text{ -----(1)}$$

$$x = \frac{40}{3} + y$$

$$3(x - y) = 40 \text{ -----(2)}$$

Multiplying eq 1 and 2

$$3(x^2 - y^2) = 8xy$$

Dividing by  $y^2$

$$\frac{3x^2}{y^2} - \frac{8x}{y} - 3 = 0$$

$$\text{Let } \frac{x}{y} = t$$

$$3t^2 - 8t - 3 = 0$$

$$t = 3$$

$$\frac{x}{y} = \frac{3}{1}$$

So ratio of efficiency of  $W : M = 1 : 3$

Efficiency of Women = 66.67% less than that of Men

Hence, option B is correct.

**For more PDFs join  
us on Telegram**

[CLICK HERE](#)



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



10. A does  $\frac{3}{5}$ th of work in 15 days.

Time Taken by A to complete the work  
 $= \frac{5}{3} \times 15 = 25$  days

Efficiency of B is 25% more than that of A.

If Work done by A in one day = 4, then work done by B in one day = 5

Ratio of time taken by A and B = 5 : 4

Time taken by B to complete the work  
 $= \frac{4}{5} \times 25 = 20$  days

A and B worked for five days.

Total work Completed by A and B in 5 days

$$= 5 \left( \frac{1}{25} + \frac{1}{20} \right)$$

$$= \frac{1}{5} + \frac{1}{4} = \frac{9}{20}$$

Work Left =  $\frac{11}{20}$  which is done by C in 11 days.

Time taken by C to complete the whole work =  $\frac{20}{11} \times 11$

C = 20 days

Ratio of Efficiency of A and C =  $\frac{20}{25}$

Efficiency of C is 25 % more than that of A.  
Hence, option B 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

JOIN

**ALL BANK EXAMS**

2020-2021 Test Series

@ Just

₹ **599/-**

300+ Full Length Tests

- Brilliant Test Analysis
- Excellent Content
- Unmatched Explanations

JOIN NOW