## Target RBI Grade B 2023 Top 150 Questions Quant Lecture 5 – Time & Work







## What we have to cover in Time & Work, Pipes & Cistern



- Concept 1 When timing is given <sup>work</sup>
- Concept 2 Comparison between efficiency or time
- Concept 3 Comparison between work
- Concept 4 Chain Rule
- Data sufficiency and Data Interpretation on Time & Work











Work = Time X Efficiency Work done in Per unit time

Time = Work Elly = Work Time

10 toyn - r 1 day 10 toyn | day







(30) 4mit -EduTap A -> lo dayn n 3 unit lday n B -> 15 dayn n 2 unit lday en Time Given A+B-> & days -> SX10=5015 Work - Amund C-7 30 days ~ [I unit I day C ( fremany ) = ! = 15 30-15 = 15 15- 15den  $A+B+C \rightarrow \frac{30}{3+2+1} = \frac{3p}{k} = 5 day$ 30 + 107 (A+B) (70%) + C (Remany) = ?  $\frac{31}{3+2} + \frac{9}{1} = 4\frac{1}{5} + 9 = 13\frac{1}{5}\frac{$ 

































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Q.15) If A, B and C together can complete a work in 8 days. In how many days, A alone can complete the whole work?

Statement I: C alone can complete the work in 24 days. Statement II: A and B can complete the work in 16 days. B and C can complete the same

work in  $9\frac{3}{5}$  days.

[1] Only statement I is sufficient to answer the question [2] Only statement II is sufficient to answer the question [3] Both statements are sufficient to answer the question [4] Either statement I or II is sufficient to answer the question [5] Neither statement I nor II is sufficient to answer the question  $4+B+C \rightarrow 8drw 6$   $A+B \rightarrow 16dc 3$  48 = 48drw 6 $A+B \rightarrow 16dc 3$ 

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A+B+C -> 8day

Study the following information carefully and answer the given questions. The following bar graph shows the number of days taken by 5 different persons to complete a work and the table shows the ratio of total number of days taken by another 5 different persons to complete the work.





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Q18. A can complete a project in 20 days and B can complete the same project in 30 days. If A and B EduTap start working on the project together and A quits 10 days before the project is completed, in how many days will the project be completed? A -> 20 day 3\_ B -> 30 day 2-: **RBI** Grade B A. 18 days 2017 nday B. 27 days C. 26.67 days Truct D. 16 days (n-10)3 + n(2) = 60 3n-30 + 2n = 60 5n = 60 + 30 = 90 n = 90 = 18 dam  $x = \frac{90}{x}$ E. 12 days 60 + 10 (3) = 90 = 18 days 3+2







Q19. Alekh and Alia can together do a piece of work in 5 days which Alia and Aman together can do EduTap in 15 days. After Alekh has been working at it for 4 days and Alia for 5 days, Aman then takes up and completes the work alone in 4 days. In how many days can Alia do the work alone? **RBI** Grade B 15 unit A. 30 days 2018 Alebh+Alia -> Solay, 3 Alia + Aman -> Isolay, 1 B. 45 days C. 50 days D. 25 days  $\begin{aligned} & Alebh (4dayn) + Alia(5dayn) + Aman(4dayn) \\ & (Alebh + Alia)(4dayn) + (Alia + Aman) 1 dayn + Aman(3dayn) = 15 \\ & (3 \times 4) + (1) 1 + Aman(3dayn) = 15 \\ & = 15 - 13 = 2 \end{aligned}$ E. None of these Alia= 1-23=3 Alia= 1-33=3 15+3=45dan 15+3=45dan Aman = 2 unit day www.edutap.co.in 🔀 hello@edutap.co.in +91 8146207241

Q.20) Aman and Suman alone can do 3/4th and 2/3rd of a work in 36 days individually. If Suman and Gagan together can do the same work in \_\_\_\_days and they have together their efficiency 12 units per day. Then in\_\_\_\_ days Aman, Suman and Gagan will complete the whole work, if they work in alternate days, starting with Gagan, after that Suman and then Aman respectively?

[1] 58 days, 62 days

[2] 36 days,62 days

[3] 65 days, 36 days

[4] 44 days, 54 days

[5] None of these















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