Time and Work

1. Ratio of efficiency of Raj and Rahul to completing a work is 3 : 4. Both started to work together but Raj left after 2 days. Another person Satish joins Rahul and they together complete the remaining work in 6 days. If Raj and Rahul together can complete the work in 8 days then Satish alone can complete the work?

(A) $\frac{24}{7}$ days **(B)** $\frac{56}{3}$ days
(C) $\frac{41}{3}$ days **(D)** $\frac{28}{3}$ days
(E) $\frac{49}{3}$ days

2. A alone can do a work in 24 days. Time taken by A in completing 1/3 of work is equal to the time taken by B in completing 1/2 of the work. In what time A and B together will complete the work.

(A) 9 days **(B)** 10 days
(C) 12 days **(D)** 48/5days
(E) 8 days

3. 'A' can complete a work in 20 days while B is 25% more efficient than 'A'. B worked for 6 days and left, remaining work is completed by 'C' in 15 days. Find in how many days 'C' can complete the whole work alone?

(A) 27 days **(B)** 21 days
(C) 18 days **(D)** 24 days
(E) 30 days

4. A can do a work in 36 days while B can do the same in 48 days. If A work for 'x' days while B work for 'x+2' days then one – third of the work is complete. Find the value of x.

(A) 4 **(B)** 8
(C) 6 **(D)** 7
(E) 5

5. A work can be completed by A alone and B alone in 10 days and 12 days respectively. With the help of C, they complete the work in 5 days. In how many days can C alone complete the work?

(A) 56 days **(B)** 66 days
(C) 60 days **(D)** 72 days
(E) 50 days

6. A work can be completed by 7 men or 10 women in 10 days. If the work is to be completed in 4 days then how many men will be required to assist 15 women?

(A) 6 **(B)** 9
(C) 8 **(D)** 7
(E) None of these

7. A and B can do a work in 12 days, B and C can do the same work in 15 days, and C and A can do the same work in 20 days. A, B and C will complete the work together in:

(A) 20 days **(B)** 28 days
(C) 12 days **(D)** 10 days
(E) None of these

8. A is 40% more efficient than B and both together can complete a work in $9\frac{3}{8}$ days. If A works for the first five days alone and the remaining work completed by B. Then find in how many days total work will be completed ?

(A) $15\frac{1}{5}$ Days **(B)** $20\frac{1}{2}$ Days
(C) 20 Days **(D)** 16 Days
(E) 18 Days

9. Three person A, B, and C can complete a task by working alone in 24, 36, and 18 days respectively. If they stareted working togther and B left the job after 5 days and C left the

job 2 days before the completion of work then find in how many days the work will be completed?

(A) 12 days **(B)** 12.5 days
(C) 10 days **(D)** 15 days
(E) 8 days

10. A can do a piece of work in 8 days which B can destroy in 3 days. A has worked for 6 days, during the last 2 days of which B has been destroying. How many days must A now work alone to complete the work?

(A) 7 days **(B)** $7\frac{1}{3}$ days
(C) $7\frac{2}{3}$ days **(D)** 8 day
(E) None of these

11. Time taken to complete a work by A alone is 300% more than the time taken by B to complete the work. B is twice as efficient as C. B and C together take 8 days to complete the same work. How many days A will take to complete the work alone?

(A) 48 **(B)** 40
(C) 50 **(D)** 55
(E) 60

12. Time taken to complete a work by A alone is 100% more than the time taken by both A and B to complete the work. B is thrice as efficient as C. B and C together take 12 days to complete the same work. How many days A will take to complete the work alone?

(A) 32 days **(B)** 16 days
(C) 24 days **(D)** 20 days
(E) None of these

13. Time taken to complete a work by A alone is 200% more than the time taken by both A and B to complete the work. B is thrice as efficient as C. B and C together take 15 days to complete the same work. How many days A will take to complete the work alone?

(A) 30 days **(B)** 40 days
(C) 50 days **(D)** 45 days
(E) None of these

14. B is 20% more efficient than A. B started the work & do it for x days. And then B is replaced by A. A completed the remaining work in x+8 days. Ratio of work done by A & B is 3:2. In how many days A & B working together complete the whole work?

(A) $13\frac{11}{17} day$ **(B)** $12\frac{7}{11} day$
(C) $13\frac{7}{11} day$ **(D)** $12\frac{8}{13} day$
(E) None of these

15. A, B and C alone can complete a work in 15, 20 and 30 days respectively. They all started the working together. A left the work after 2 days and B left the work 6 days before the completing of work. Remaining work it completed by C alone. Find the time for which C worked.

(A) 16 days **(B)** 8 days
(C) 10 days **(D)** 12 days
(E) 14 days

16. A can do a piece of work in 36 days and B can do 1/3 rd of the work in the same time in which A do half of the work. If C is 100% more efficient than B. find in how many days work will be completed by all three when they worked together?

(A) 8 days **(B)** 10 days
(C) 12 days **(D)** 16 days
(E) 20 days

17. A is twice efficient as B and together they can do a work in as much time as C and D together takes to do that work. If C and D alone can complete the work in 20 days and 30 days respectively, then in how many days A can complete the same work alone.

(A) 12 days **(B)** 18 days
(C) 24 days **(D)** 30 days
(E) 32 days

18. A;s efficiency is 25% more than B

Quantity I – 'X' : A van do 5/6th of total work in 'x' day
Quantity II – 'Y' : B can do 4/5th of total work in 'y' days
(A) Quantity I > Quantity II
(B) Quantity I < Quantity II
(C) Quantity I ≥ Quantity II
(D) Quantity I ≤ Quantity II
(E) Quantity I = Quantity II or No relation

19. Quantity A: A boy can do a homework in 2 hours. The number of home – works he can complete if he works for 6 hrs:
Quantity B: A can do a piece of work in 20 days. B can do the same work in 25 days. A and B work together for 9 days. C who can do the same work in 10 days joins them now. Then the number of days in which the remaining work will be completed:
(A) Quantity A > Quantity B
(B) Quantity A < Quantity B
(C) Quantity A ≥ Quantity B
(D) Quantity A ≤ Quantity B
(E) Quantity A = Quantity B

20. A can do the same work while working alone in 20 days and with the help of B he can finish the same work in 12 days. If A got Rs 15000 for doing the work then how much money B will get?
(A) Rs. 12500 **(B)** Rs. 8000
(C) Rs. 7500 **(D)** Rs. 10000
(E) Rs. 11000