TIME & WORK (Ref: FM-QAH2022005)

# Individual Type

- A takes 30 hours to do a job. B takes 20 hours to do the same job. How long does it take both A & B, working together, to do the same job?
   a) 6 b) 9 c) 12 d) 5
- A, B and C can complete a piece of work in 12, 20 and 15 days respectively. Working together, they will complete the same work in.
  a) 4.5 b) 7 c) 5 d) 4
- Ajay can copy 50 pages in 10 hours; Ajay and Vijay together can copy 300 pages in 40 hours. In how much time can Vijay copy 30 pages?
  a) 13 h
  b) 12 h
  c) 11 h
  d) 9 h
- 4. A, B, and C together can reap a field in 6 days. If A can do it alone in 10 days and B in 24 days. In how many days will C alone be able to reap the field?
  a) 40 days b) 36 days c) 35 days d) 32 days
- 5. Arun and Barun can do a piece of work in 28 days. With the help of Varun, they can finish it in 21 days. How long will Varun take to finish the work all alone?

a) 84 days b) 80 days c) 75 days d) 70 days

- A takes 5 days more than B to do a certain job and 9 days more than C; A and B together can do the job in the same time as C How many days A would take to do it?
   a) 20 days (b) 15 days (c) 10 days (d) 16 days
  - a) 20 days b) 15 days c) 10 days d) 16 days
- 7. A, working alone, takes 80 days more than the time taken by A and B working together to complete the work. B, working alone, takes 20 days more than the time taken by A and B working together to complete the work. Find the time taken by A alone to complete the work.
- 8. Working together, A and B can complete a piece of work in 12 days, B and C can complete the same work in 20 days while A and C can complete it in 15 days. Find the number of days in which each of them can complete the same work.
- 9. A and B together can complete a piece of work in 30 days, B and C together can complete the work in 40 days. A and C together can complete the work in 60 days. What is the ratio of number of days A alone takes to do the work to the number of days C alone takes to do the work?
  - a) 1 : 6 b) 1 : 3 c) 2 : 3 d) 3 : 2
- 10. a) A and B can complete a work in 10 days and 15 days respectively. If they work on alternate days, find the number of days in which the work will be completed.
  - b) A and B can complete a work in 20 days and 40 days respectively. If they work on alternate

days, find the least number of days in which the work will be completed.

- 11. A, B and C can complete a piece of work in 12, 15 and 18 days respectively. They work on a rotation basis with A working on the first day, B on the second, C on the third. then again-A on the fourth day and so on. In how many days will the work be completed?
- 12. A, B and C can do a piece of work in 10, 15 and 30 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?
  a) 7.5 b) 8 c) 9 d) 6

## Joining/Leaving

- 13. Aman can complete a work in 30 days. Baman can complete the same work in 45 days. If Baman starts the work and Aman joins him after 15 days, in how many days will the work be completed?
- 14. A can finish a work in 36 days and B can do the same work in 30 days. B worked for 10 days and left the job. In how many days, A alone can finish the remaining work?
  a) 18 b) 15 c) 24 d) 16
- 15. A and B can together finish a work in 40 days. They worked together for 30 days and then B left. After another 30 days, A finished the remaining work. In how many days A alone can finish the work?
  a) 135 b) 150 c) 120 d) 90
- 16. A can do a piece of work in 72 days. He works at it for 9 days and then B alone finishes the remaining work in 35 days. In how much time will A & B, working together, finish the work?
  a) 25 5/7 b) 32 2/3
  c) 22 2/5 d) NOT
- 17. Arun and Barun can do a piece of work in 45 days and 40 days respectively. They began to do the work together but Arun leaves after some days and then Barun completed the remaining work in 23 days. The number of days after which Arun left the work was

  a) 9
  b) 15
  c) 21
  d) 12
- 18. Working together, A and B can complete a work in 24 days. They work together for 18 days after which B leaves. If A finishes the remaining work in 10 days. Find the number of days that B alone would take to complete the work.
- 19. A can complete a job in 27 days. He starts it and after three days B joins him. They work together for six days. A then leaves and C takes his place. B and C complete the job in 12 more days. If B takes at most 54 days to complete the job, then which of the following cannot be a possible value of the number of days taken by C to complete it?

20. Amar, Akbar and Anthony can complete a piece of work in 10, 15 and 12 days respectively. All the three of them started working and after an integral number of days(y). Amar stopped working and Akbar stopped working exactly (y) days before the work got completed. If the number of days, taken to complete the work is an integer, in how many days did the work get completed?

## Efficiency

21. Sunny is thrice as good a workman as Bunny and therefore is able to finish the job in 60 days less than Bunny. In how many days will they finish the job working together?

a) 20 days	b) 11 days			
c) 15 days	d) 22.5 days			

22. A can do a certain job in 14 days. B is 40% more efficient than a) How many days does B alone take to do the double same job?a) 24 b) 40

c) 2	26			d) 2	20	
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23. A is twice as good as B Together, they finish the work in 14 days. In how many days can B alone do the same work?

a) 15 days	b) 21 days
c) 30 days	d) 42 days

24. A can finish a piece of work in 24 days. B is 20% more efficient than A and C is 25% more efficient than b) Find the time B and C will take to finish the work?a) 8 daysb) 9 days

a) 8 days	b) 9 days
c) 7 days	d) 6 days

- 25. The rate of work of B is twice that of a) A can complete a piece of work in 30 days. A started the work and B joined him after a few days. The work was completed in 22 days. For how many days did A work alone?
- 26. John, Rock and Kane are three brothers. The rate of work of John is one third of that of Rock and Kane together. If Rock can complete the work in 8 days, while Kane can complete it in 24 days, in how many days can they together complete the same work?
- 27. A does half as much work as B does in one sixth of the time. If together they take 20 days to complete the work, then what is the time taken by B to complete the work independently.

a) 120 days	b) 140 days
c) 80 days	d) 100 days
e) None	

28. A man starts a piece of work. Starting from the second day onwards, every day a new man joins. With every new man joining, the work that each man can do per day doubles. The work is completed in 5 days. On which day would they have completed the

work, if the work that each of them could do per day had remained constant?

#### Wages

- 29. A can complete work in 100 days and B can complete the same work in 150 days. If A and B work together and earn 13000, find the individual earnings.
- 30. A and B undertake to do a piece of work for Rs. 200. A can do it in 5 days and B can do it in 10 days. With the help of C, they finish it in 2 days. How much C should be paid for his contribution?
  a) 80 b) 40 c) 120 d) 60
- 31. Ajay, Vijay, and Sanjay are employed to do a piece of work for Rs. 529. Ajay and Vijay together are supposed to do 19/23 of the work and Vijay and Sanjay together 8/23 of the work. How much Ajay should be paid?
  a) 245 Rs.
  b) 295 Rs.

d) 345 Rs.

- 32. Arun can do a piece of work in 10 days, Bala in 15 days. They work together for 5 days, the rest of the work is finished by Chitra in two more days. If they get Rs. 24000 as wages for the whole work, what are the daily wages of Arun, Bala and Chitra respectively (in Rs)?
  a) 2400, 1600, 2000 b) 800, 1200, 1600
  c) 2000, 1200, 1600 d) 2400, 2000, 1200
- 33. P, Q and R together can complete a job in 5 days. The wages paid to P, Q and R for completing the job were Rs. 4050, Rs. 5400 and Rs. 6750 respectively. In how many days can P working alone, complete the job?
  a) 36 b) 30 c) 24 d) 20

# Group Based

c) 300 Rs.

34. In a fort there was sufficient food for 200 soldiers for 31 days. After 27 days 120 soldiers left the fort. For how many extra days will the rest of the food last for the remaining soldiers?

a) 12 days	b) 10 days
c) 8 days	d) 6 days

- 35. X number of men can finish a piece of work in 60 days. If there were 6 men more, the work could be finished in 10 days less. What is the original number of men?
  a) 20 b) 22 c) 24 d) 30
- 36. If 36 persons can complete 3/5 of a work in 10 days, then find the number of persons required to complete the remaining work in 10days?
  a) 21 b) 24 c) 27 d) 30
- 37. Seven men can complete a work in 10 days. They started the work and after 5 days, two men left. In how many days will the work be completed by the remaining men?a) 9b) 8c) 6d) 7

a) 9	b) 8	c) 6	d) 7
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- 38. A certain job was assigned to a group of men to do it in 20 days. But 12 men did not turn up for the job and the remaining men did the job in 32 days. The original number of men in the group was

  a) 34
  b) 32
  c) 40
  d) 36
- 39. If 40 people can make 60 toys in 8 hrs, if 8 people leave the work, how many toys can make in 12 hrs?a) 70b) 75c) 65d) None
- 40. A contractor undertook a job and employed 40 men to do a piece of work in 80 days. But after 60 days he found that only 3/5 of the work is completed. To complete the work in time, how many more men he should employ.
  a) 15 b) 20 c) 25 d) 40
- 41. A project manager hired 16 men to complete a project in 40 days. However, after 30 days he realized that only 4/9th of the work is complete. How many more men does he need to hire to complete the project on time?
  a) 30 b) 32 c) 44 d) 40
- 42. Four girls or six boys can complete a work in 24 days. In how many days can four girls and three boys working together complete the work? **16 days**
- 43. 24 men working 8 h a day can finish work in 10 days. Working at a rate of 10 h a day, the number of men required to finish the work in 6 days is a) 36 b) 34 c) 32 d) 30
- 44. Six women and seven men working together take 24 days to complete a work. Four men and seven women can complete the same work in 32 days. Find the number of days in which three men and four women can complete the work. **48 days**
- 45. 25 men can complete a piece of work in 12 days and 24 women can complete the same piece of work in 12 days. What is the ratio of the amount of work done by 30 men in one day to the amount of work done by 16 women in 1 day?
  a) 6:7 b) 9:5 c) 7:5 d) 5:9
- 46. 12 men complete a work in 18 days. 6 days after they had started working, 6 men join them. How many more days will all of them take to complete the remaining work?

a) 8 days	b) 6 days
c) 4 days	d) 9 days

#### Mixed

47. Twenty-four men can complete a work in 16 days. Thirty- two women can complete the same work in twenty-four days. Sixteen men and sixteen women started working and worked for 12 days. How many more men are to be added to complete the remaining work in 2 days?

a) 24 men	b) 12 men
c) 16 men	d) 20 men

48. Three men, four women and six children can complete a work in 7 days. A woman does double the work a man does and a child does half the work

a man does. How many women alone can complete this work in 7 days? a) 7 b) 6 c) 8 d) 10

Ansv	Answer Key						
1. c	2. c	3. b	4. a	5. a	6. b	7. 1 2 0	8. 20,3 0, 60
9. b	10. a) 12 days b) 26 1/2 days	11. 14.5 days	12. b	13. 27 days	1 4. c	1 5. c	16. а
17. а	18. 60 days	19. a	20. 6 days	21. d	2 2. d	2 3. d	24. b
25. 18 day s	26. 4.5 days	27. c	28. 16th day	29. 780 & 520	3 0. a	3 1. d	32. a
33. d	34. d	35. d	36. b	37. d	3 8. b	3 9. d	40. d
41.vv c	42. 16 days	43. c	44. 48 days	45. b	4 6. a	4 7.	48. b



