

- 1. A man and a women can complete a task in 8 and 12 days respectively. In how many days will 2 men and 3 women be able to complete the task?
  - A. 2
  - **B**. 4
  - C. 5
  - D. 3
- 2. A pool has 3 taps. The first tap takes 4 days, the second tap takes 2 days and the third tap takes only 12 h to fill the pool. How long will it take to fill the pool using all the three taps?
  - A. 6 days
  - B. 88/11h
  - C. 1 1/11 h
  - D. 6 <sup>1</sup>/<sub>2</sub> days

3. If 3 men or 6 boys can complete a task in 20 days, how many days will 6 men and 8 boys take to do the same task?

- A. 16
- B. 10
- C. 6
- D. 15

4. Avinash, Bhuvnesh and Chaman can complete a piece of work in 20,30 and 60 days respectively. In how many days can Avinash complete the work if he is assisted by Bhuvnesh and Chaman on every third day?

- A. 16
- B. 18
- C. 12
- D. 15

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# **Time & Work Questions Asked in Railway NTPC Exam 2021**

5. Anil and Balbeer can finish a task in 3 days. They started working together, but after 2 days Anil got injured. Balbeer took 2 more days to finish the task. In how many days can **Balbeer alone finish the same task?** 

- A. 6
- B. 9
- C. 5
- D. 10

6. Reena and Jaya can complete a piece of work in 6 days and Jaya alone can complete it in 8 days.In how many days can Reena alone complete it?

- A. 2 days
- B. 12 days
- C. 24 days
- D. 48 days

7.16 men can complete a work in 12 days.12 women can complete the same work in 32 days. 16 men and 16 women together worked for 4 days, after which the women dropped out and 16 more men joined. In how many days will the men be able to complete the remaining work?

- A. 4 days
- B. 5 days
- C. 3 days
- D. 2 days

8. Aryan takes twice as much time as Vipin to finish a piece of work. Together they finish the same piece of work in 2 days. In how much time can Vipin do the same work?

- A. 2 days
- B. 3 days
- C. 4 days
- D. 6 days

9. A can complete 25% of a task in 10 days. B can complete 40% of the task in 40 days and C can complete 1/3 of the task in 13 days. Who among them has the fastest speed to complete the same task?

- A. A
- B. All have the same speed
- C. C
- D. B

10. If Rama can do a task in 20 days and Krishna can do it in 30 days, then the time taken by both to complete the task working together is

- A. 10 days
- B. 15 days
- C. 12 days
- D. 8 days

11. A and B completed a work in 12 and 15 days resp. They started the work alternatively for 1 day each and A started the work first. In how much time to complete 75% of the work will be completed?

- A. 4 B. 6
- C. 8
- D. 10

12. X and Y can complete a piece of work in 16 days. Y and Z can do the same piece of work in 24 days. X,Y and Z together can do it in 12 days. How much time will X and Z take to finish it?

- A. 14 days
- B. 10 days
- C. 16 days
- D. 12 days

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**Time & Work Questions Asked in Railway NTPC Exam 2021** 

13. A is twice as efficient as B and together, they finish a piece of work in 20 days. A alone can finish the work in

- A. 20 days
- B. 30 days
- C. 26 days
- D. 28 days

14. A does half as much work as B in threefourth of the time taken by B. If together they take 12 days to complete the work, how much time shall B take to do it alone?

- A. 10 days
- B. 20 days
- C. 16 days
- D. 15 days

15. A group of men decided to complete a work in 10 days, but five of them remained absent. If the rest of the group completed the work in 12 days, find the original number of men

- A. 25 men
- B. 30 men
- C. 24 men
- D. 40 men

16. 15 men or 25 women can reap a field in 22 days. How many days will 9 men and 18 women take to reap it?

- A. 15 2/3
- B. 17 2/3
- C. 18 2/3
- D. 16 2/3

17. Ram alone can finish a task in 20 days while shyam alone can finish it in 30 days. How many days will they take to finish the task if they work together?

- A. 14
- B. 16

- C. 12
- D. 18

18. An inlet pipe can fill a tank in 4h and an outlet pipe can empty the tank in 6h. By mistake, both the pipes are kept open. Find the number of hours in which the tank will be half-full.

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- A 8h
- B. 6h
- C. 12h
- D. 10h

19. A and B can finish a task in 18 days. B and C can finish the same task in 27 days. A,B and C together can finish it in 12 days. How much time A and C will take to finish it?

- A. 15 <sup>1</sup>/<sub>2</sub> days
- B. 13 <sup>1</sup>/<sub>2</sub> days
- C. 14 <sup>1</sup>/<sub>2</sub> days
- D. 12 <sup>1</sup>/<sub>2</sub> days

20. X and Y can finish a task in 15 days and 20 days, respectively. The capacity of Z is 5/2 times that of X. Working together in how many days will X, Y and Z finish the same task?

A. 
$$3\frac{7}{17}$$
 days  
B.  $3\frac{8}{17}$  days  
C.  $3\frac{6}{17}$  days  
D.  $3\frac{9}{17}$  days

21. A dog saw a cat at a distance of 280m. The cat at once ran with the speed of 10km/h and the dog also ran to catch it with the speed of 24km/h. How much time will the dog take to catch the cat?

- A. 1.4 min
- B. 1.2 min
- C. 1.3 min
- D. 1.5 min

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22. A man completes a journey in 11 h. He travels first half of the journey at the speed of 25km/h and the second half at the speed of 30 km/h. Find the total distance of the journey.

- A. 300 km
- B. 285 km
- C. 250 km
- D. 265 km

23. A man's working hours per day were increased by 35% and his wages per hour were decreased by 25%. By what percentage were his daily earnings increased?

- A. 1.35
- B. 1.25
- C. 1.2
- D. 1.3

24. A daily wage labourer was engaged for a certain number of days for Rs.5,850, but being absent on some of those days he was paid only Rs.5,200. What was his maximum possible daily wage?

- A. Rs.650
- B. Rs.750
- C. Rs.700
- D. Rs.600

25. A and B together can complete a piece of work in 35 days. A alone can complete the same work in 60 days. B alone will be alone to complete same work in

- A. 84 days
- B. 72 days
- C. 42 days
- D. 96 days

26. A tank can be filled by 5 pipes in 80 minutes. How long will it take to fill the tank by 8 pipes of same dimensions?

- A. 30 minutes
- B. 78 minutes
- C. 50 minutes
- D. 128 minutes

27.A, B and C can do a piece of work in 20,30 and 60 days, respectively. A works every day, B assists A on all odd numbered days, while C assists A on all even-numbered days. In how many days will the work be completed?

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- A. 13 1/5
- B. 13 <sup>1</sup>⁄<sub>2</sub>
- C. 13 <sup>1</sup>⁄<sub>4</sub>
- D. 13 1/3

28. A tyre has two punctures. The first puncture alone would have made the tyre flat in 9 min and the second alone would have done it in 6 min. If air leaks out at a constant rate, how long will it take both the punctures together to make the tyre flat?

- A. 1 <sup>1</sup>/<sub>2</sub> min
- B. 4 ¼ min
- C. 3 <sup>1</sup>/<sub>2</sub> min
- D. 3 3/5 min

29. A boy read 3/8 of a book on one day and 4/5 of the remainder on another day. If there were 30 pages unread, how many pages did the book contain?

- A. 209
- B. 240
- C. 380
- D. 200

30. A alone can complete a piece of work in 15 days, While B alone can do it in 30 days, if the both of them work on alternate days, when will the work on alternate days, when ill the work get complicated?

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# Time & Work Questions Asked in Railway NTPC Exam 2021

A.24 days B.20 days C.Cannot be determined D.18 days

31. A can lay railway tracks between two given stations in 16 days and B can do the same job in 12 days, With the help of C, they did the job in 4 days only. Considering this, C alone can do the job in?

A.5/48 days B.48/5 days C.48 days

> 32. Ali can complete a piece of work in 8 days. Balvinder can complete the same work in 10 days. In order to complete the work in 4 days, they asked Chander to join them and were able to finish the work in time. In how many days can Chander alone finish the work?

- A. 40 days
- B. 20 days
- C. 12 days
- D. 14 days

33. Amit alone can complete a piece of work in 15 days and Balbir alone can do the same work in 10 days. If Amit alone works for 3 days after which Balbir joints him, then the work will be finished in how many days?

- A. 4 4/5 days
- B. 1/6 days
- C. 4/5 days
- D. 7 4/5 days

34. Sushil can complete a piece of work in 15h and Bishan can complete the same work in 18 h. If they work together how much time will they take to complete the work?

- A. 11/90 h
- B. 16 ½ h
- C. 8<sup>1</sup>/<sub>4</sub> h
- D. 8 2/11 h

35. A tank has 3 taps to fill water. The first tap takes 6h, the second tap takes 1 day and the third tap takes 18 h to fill the tank. But there was a hole at the bottom, capable of emptying the completely filled tank in 18h. The hole was detected after 1h and was immediately fixed. How long will it take to fill the tank using all the three taps?

- A. 3 15/19 h
- B. 4h
- C. 4 4/5 h
- D. 3h

36. Rajesh can finish a task in 4 days while Mahesh can finish the same task in 3 days. If both of them finish the task together and get paid Rs.350 in total, then find the share of Rajesh

- A. Rs.200
- B. Rs.100
- C. Rs.150
- D. Rs.140

37. A man complete a work in 15 days by working 4h per day for 5 days, 5h per day for 5 days and 6h per day for 5 days. If he works 8h per day with half an hour lunch break, he will complete the work in?

- A. 10 days
- B. 12 days

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- C. 7.5 days
- D. 8 days

38. A boy does <sup>1</sup>/<sub>4</sub> th of the work done by a man in the same time. 15 men complete a particular work in 17 days. If 3 men are replaced by 3 boys, the work will be completed in

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

39. Mohan is twice as good as Kamlesh and together, they finish a task in 22 days. Mohan alone can finish the task in

- A. 37 days
- B. 31 days
- C. 35 days
- D. 33 days

40. Pipe A can fill a tank in 80 min and pipe B can fill the tank in 40 min. If A and B are opened together, then in how many minutes will the tank be filled?

- A. 27
- B. 26
- C. 26 2/3
- D. 26 1/3

41. A, B and C can complete a piece of work in 6,12 and 24 days respectively. They all together will complete the work in

- A. 5 2/7 days
- B. 4 2/7 days
- C. 4 3/7 days
- D. 3 3/7 days

42. If A, B and C can complete a task alone in 15 days, 20 days and 25 days, respectively, then in how many days can they complete the same task if they work together?

- A. 225/47
- B. 300/47
- C. 150/47
- D. 75/47

43. A alone can complete 2/5 of a task in 12 days, while B alone can complete <sup>3</sup>/<sub>4</sub> of the same task in 25 days. In how many days can they complete the task if they work together?

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- A. 150/9
- B. 75/19
- C. 1/19
- D. 300/19

44. A works twice as fast as B. If both of them together can finish a job in 12 days, then how many days will B take to finish the job alone?

- A. 24
- B. 12
- C. 36
- D. 48

45. Karan works twice as fast as Shyam. Working together, they can complete a task in 20 days. In how many days will Karan alone complete the same task?

- A. 28 days
- B. 32 days
- C. 26 days
- D. 30 days

46. X and Y can complete a task in 28 days and 20 days, respectively, X started the task alone. After 4 days Y joined him till the completion of the task. How long did the task last?

- A. 8 days
- B. 12 days
- C. 10 days
- D. 14 days

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47. Ameesha can complete a task by herself in 14 days, while it takes Bhavya 35 days to complete it alone.Together with Chitra, they can complete the task in 6 days. How many days will chitra need to complete the task alone?

- A. 43
- B. 15
- C. 28
- D. 14

48. A alone can complete a work in 12 days and B alone can complete the same work in 18 days. They started working together, But A left after 3 days. In how many days will B alone be able to complete the remaining work?

- A. 21
- B. 10.5
- C. 13.5
- D. 15

49. A can finish a work in 15 days and B can finish the same work in 20 days. Working together, in how many days can they finish the same work?

- A. 8.57
- B. 17.5
- C. 12.57
- D. 20

50. A is 50% as efficient as B. C completes half of the task completed by A and B together in a day. If C alone completes the task in 40 days, then A, B and C together can complete the task in:

- A. 13 1/3 days
- B. 43/3 days
- C. 13 days
- D. 1/3 days

51. 6 pipes, all of same type, are required to fill a tank in 1 h 20 min. How long will it take if only 5 pipes of the same type are used?

- A. 1h 40 min
- B. 1h 36 min
- C. 5h
- D. 1h 63 min

52. Rinku is twice as efficient as Deepak and together, they finish a piece of work in 28 days, Rinku alone can finish the work in

- A. 44 days
- B. 43 days
- C. 41 days
- D. 42 days

53. Vicky can complete a piece of work in 40 days. He worked for 8 days, then Gurpreet Singh finished it in 32 days. In how many days can Vicky and Gurpreet Singh together complete the work?

- A. 10 days
- B. 25 days
- C. 20 days
- D. 15 days

54. Twelve men can complete a task in 16 days. Thirty-two women can complete the same task in 12 days. Eight men and eight women together worked for 12 days, after which the women dropped and 8 men joined. In how many days the men will be able to complete the remaining task?

- A. 9 days
- B. 10 days
- C. 3 days
- D. 2 days

55. X and Y together can complete a piece of

work in 12 days, Y and Z can do it 18 days and

X and Z can complete the same work in 15

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days. If X, Y and Z can together complete the work, approximately how days will be required to complete the work

- A. 12
- B. 18
- C. 10
- D. 14

56. A can complete a piece of work in 12 days. B is 20 % less efficient than A. The numbers of days it will take for B to complete the work is

- A. 18 days
- B. 20 days
- C. 15 days
- D. 16 days

57. A can complete a piece of work in 20 days and B alone can complete the work in 30 days. Due to some other work, A had to leave the work before completion and for the last 5 days B alone did the work. The total time taken to complete the work is

- A. 20 days
- B. 12 days
- C. 15 days
- D. 18 days

58. The capacity of working by A and B is in the ratio 3:4. If A takes 12 days to finish the work, the time taken by B to finish the same work is

- A. 12 days
- B. 16 days
- C. 9 days
- D. 18 days

59. A, B and C can complete a job in 5 days. B,C and D can complete the same job in 10 days. C,D and A can complete the same job in 15 days and D,A and B can complete the same job in 30 days. How long A,B,C and D together will take to finish the job?

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- A.  $8\frac{1}{2}$  days
- B. 7 days
- C. 8 days
- D. 7 <sup>1</sup>/<sub>2</sub> days

60. Three pipes, A ,B and C, can fill a tank in 15 hours, 12 hours and 18 hours, respectively. If both pipes A and C are opened simultaneously into the empty tank, then the time taken (in hours) to fill the tank will be

A.  $6\frac{5}{2}$ B.  $8\frac{2}{11}$ C.  $7\frac{2}{3}$ D.  $9\frac{3}{7}$ 

61. A,B, and C can complete a job in 40 days, 60 days and 80 days respectively. All the three worked together but A left 11 days and B left 8 days before the completion of work. In how many days, the entire work will be completed?

- A. 26 days
- B. 28 days

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- C. 30 days
- D. 24 days

62. 30 workers can build bridge in 40 days. If 75 workers are to be assigned to complete the same work, then the number of days required will be

- A. 16
- B. 12
- C. 10
- D. 56

63. If 3 men or 6 boys can complete a task in 20 days, how many days will 6 men and 8 boys take to do the same task?

- A. 16
- B. 10
- C. 6
- D. 15

64. Avinash, Bhuvnesh and Chaman can complete a piece of work in 20,30 and 60 days respectively. In how many days can Avinash complete the work if he is assisted by Bhuvnesh and Chaman on every third day?

- A. 16
- B. 18
- C. 12
- D. 15

65. A and B can complete a piece of work in 20 days. B and C can complete it in 30 days. A is twice as good as C in completing the work. Find in how many days will C alone complete it

- A. 55 days
- B. 60 days
- C. 65 days
- D. 50 days

66. A and B can complete a job in 40 days and 60 days respectively. They work together for some days and B leaves the job. If A completes the rest of the work in 10 days, find for how many days B worked.

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- A. 15 days
- B. 18 days
- C. 14 days
- D. 16 days

67. 15 male employees or 20 female employees of a company can complete a project in 26 days. How long will 30 male employees and 12 female employees together take to complete the project?

- A. 14 days
- B. 10 days
- C. 12 days
- D. 8 days

68. Harish and Bimal can complete a task in 20 days. They worked at it for 15 days and then Bimal left. The remaining work was done by Harish alone, in 10 days. Harish alone can complete the entire task in

- A. 40days
- B. 45days
- C. 35days
- D. 30days

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# ANSWERS





2men's One day work =>2x3=6w

3women's One day work=>3x2=6w

2men and 3 women's one day work=12

To complete total work  $24 = \frac{24}{12} \rightarrow 2$  days

#### 2. ANS.B.8 8/11 h

First tap=4d=4x24 hours=96 hours

Second tap=2x24 hours =48 hours





All three taps worked together so time

- $\Rightarrow$  (Total work/Their together work)
- ⇒ 96/(1+2+8)
- ⇒ 96/11

⇒ 88/11 h

#### 3. ANS.C.6

3men or 6 boys so 3 men=6 boys  $\rightarrow$ 

1 men = 2 boys; 6 men = 12 boys

6 boys can complete the task in 20 days

6men and 8 boys =12boys+8 boys=20boys

6 b x 20 d=20b x ?

6 days

#### 4. ANS.D.15

Avinash, Bhuvnesh and Chaman can complete a piece of work in 20,30 and 60days

LCM of 20,30,60 =60w (Total work)

Avininash work per day =60/20=3w

Bhuvnesh work per day =60/30=2w

Chaman work per day =60/60=1 w

Avininash work every day Bhuvnesh and chaman worked with avinash in every third day so Work done by 3 days=3(3)+3=12w

3days=12w; then 60 w should be done by15 days

# 5. ANS.A.6

(Anil+Balbeer)'s one day's work = 1/3 part

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(Anil+Balbeer) works 2 days together = 2/3 part

Remaining work = 1-2/3 = 1/3 part

1/3part of work is completed by Balbeer in two days

Hence, one day's work of Balbeer = 1/6

So, Balbeer alone can complete the whole work in 6 days

# 6. ANS.C.24 days

Reena and jaya's one day work=1/6

Jaya's one day work=1/8

Reena's one day work=1/x

1/x + 1/8 = 1/6

1/x = 1/6 - 1/8

1/x = (4-3)/24 = >1/24

x=24

Reena alone complete her work in 24 days.

7. ANS.C.3 days

16M X 12=12 WX 32

M/W=2/1

Total work=16 x2 x 12=384

According to the question

X= Days required for remaining work

(16\*2+16\*1)x4 + 32\*2\*x = 384

192+64x=384

64x=192

X=3

8. ANS.B.3 days

Time of Aryan: Vipin=2:1;

Work of Aryan:Vipin=1:2;

Together work 1+2==3w; in two days so Total work=3x2=6w;

Days to complete total work by Vipin

=(Total work)/Vipin's one day work

 $=6/2 \rightarrow 3$  days

9. ANS.C.C

A-25% in 10 days ; 100% work in 40 days

B-40% in 40 days; 100% work in 100 days

C-1/3 in 13 days; 100% work in 39 days

Comparing 'C' has done his work in fastest

#### 10. ANS.C.12 days



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We know that total work = efficiency (one day's work) × time

Let total work=60 Units (LCM of 20, 30)

One day work of Ram and Krishna's together=> ( 3+2)=5w

The total number of days in which Ram and Krishna together will complete the work =>60/5=>12 days

#### 11. Answer: D

#### Solution:

Let the total work (LCM of 12, 5) be 60.

Efficiency of A = 60/12 = 5 units/day

Efficiency of B = 60/15 = 4 units/day

On the first two days, A can do 5 units on the first day and B can do 4 units on the second day. (Because they are working on alternate days)

Total units completed in the 1st day and 2nd day is= 9 units

60% of the work =  $60 \times 75\% = 45$ 

According to 9 units per 2 day, in 10 days 45 units of the work completed.

#### 12. ANS.C.16 days

One day Work of X and Y = 1/16

One day Work of Y and Z=1/24

One day Work of X Y and Z = 1/12

X + Y = 1/16

Y + Z = 1/24

SUB X+Y IN Eqn 1

1/16+Z = 1/12

WORK DONE BY Z IN ONE DAY = 1/12 - 1/16

= (4-3)/48 = 1/48

SUB Y+Z IN Eqn 1

X+1/24 = 1/12

WORK DONE BY X IN ONE DAY = 1/12 - 1/24

=(2-1)/24=1/24

WORK DONE BY X AND Z IN ONE DAY = 1/48 + 1/24

=(1+2)/48=3/48=1/16

Time taken by x and z is=16 days

#### 13. ANS.B.30 days

Work Ratio A:B =>2:1

Time Ratio A:B =1:2

1/x + 1/2x = 1/20

3/2x=1/20

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x=30 days

A alone complete the work in 30 days.

14. ANS.B.20 days

Time :3:4

Efficiency 1:2

we have to do time equal so,

A: B work Efficiency ratio= 4:6

A and B together do a work in 12 days

Total work=(4+6)x12=>120w

B alone Time=> Total work/B alone work=>120/6=20 days

#### 15. ANS.B.30 men

Let the original number of men be x;

X men complete 10 days;

X-5 men complete the work in 12 days;

X \*10 =(x-5)\*12

10x=12x-60

2x=60

x=30

Original number of men=30

16. ANS.D.16 2/3

15 men or 25 women ; so 15 men=25 women

3 men=5 women

9 men and 18 women means=>15 women +18 women=33 women

If 25 women complete the work in 22 days; 33 women complete in

25x22=33x?

?=50/3 =>16 2/3

9 men and 18 women complete the work in 16 2/3 days

17. ANS.C.12



Together time = Total work/(together work)=60/(5)=>12days

#### 18. ANS.B.6h

Inlet pipe work=1/4

Outlet pipe work= -1/6

Work together=1/4-1/6=>(3-2)/12=>1/12

So it take 12 hours to fill a tank; Therefore to half-full it take 12/2=>6hours.

# 19. ANS.B.13 1/2 days

A+B+C=12 days

2(A+B+C) can do the same work in 6 days

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1/(A+B) +1/(B+C) + 1/(A+C)= 1/2(A+B+C)
1/18 +1/27 +(1/(A+C))=1/6
1/(A+C) =1/6-1/18-1/27
=> (9-3-2)/54
=> (4/54)
A+C= 54/4 =13 <sup>1</sup> / <sub>2</sub> days
<b>20. ANS.D.</b> $3\frac{7}{17}$ days
1/X+1/Y+1/Z= 1/15 +1/20 +5/2(15)
=>1/15+1/20+1/6
=>(4+3+10)/60
=>17/60
Together time=> $60/17$ => $3 9/17$ days
21. ANS.B.1.2 min
Distance=280 m;
Relative speed=24-10=14km/h =>14 *5/18 (m/s)(same direction)
Time=Distance/speed=>280/70/18 =>4*18=72sec
72sec=72/60=>1.2 min
22. ANS.A.300 km
Let the distance be 2x;
Time=Distance/Speed;

x/25 +x/30=11

6x/150 +5x/150=11

11x/150=11

x=150km

Total Distance 2x=150\*2=>300 km

# 23. ANS.B.1.25

Earning=>working hours \* wages per hour

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So all in directly proportional=>a% increase b% decrease means effective change=>a-bab/100

=>35-25-(35\*25/100)

=>10-8.75

=>1.25

24. ANS.A.Rs.650

Try to solve these kind of question by option

Because of his being absent he was paid Rs. 650 less.

Now check with option.

Since maximum possible daily wages is asked so it will be Rs. 650

#### 25. ANS.A.84 days

A's one day work =>1/60;

(A+B)'s one day work=1/35;

B's one day work=>1/35-1/60

=>12/420 -7/420

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=>5/420 =>1/84

B complete the work in 84 days

#### 26. ANS.C.50 minutes

A tank can be filled by 5 pipes =80 min

Therefore, A tank can be filled by 8 pipes

 $=(80\times5)/8=50$  min

27. ANS.C.13 <sup>1</sup>⁄<sub>4</sub>



60 (Total work)

First day A+B=>3+2=5w done

Second day A+C=>3+1=>4w done

So in a couple of days=>5+4 =>9 works done

=>60/9=>6 couple of days (12 days) =>(9\*6) =54 works done

On 13rd day A+B=5w done=>54+5=>59 done

Remaining work is 1 and even day total work is  $4 = \frac{1}{4}$ 

So total time  $13 \frac{1}{4}$ ;

# 28. ANS.D. 3 3/5 min



Together work=18/(2+3)=> 18/5 =>3 3/5 min

#### 29. ANS.B.240

3/8 of a book on one day;

Remaining book=1-3/8=>5/8;

Next day=5/8 \*4/5=4/8 ;

Total read pages=3/8+4/8=>7/8;

Unread pages=1/8 =>30 pages

Total pages=8\*30=240 pages

#### 30. ANS.B.20 days



Total works=30 Both work alternatively 2 + 1 => 3 works in two days 30/3 \*2 =20 days **31. D.16/5 days** ANS.B.48/5 days A's work in one day=1/16

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B's work in one day= 1/12 A+B+C's work=1/4 C's work= 1/4 -1/12 - 1/16 =>(12-4-3)/48 =>5/48 C's time = 48/5 days

#### 32. ANS.A.40 days

Ali's work in a day=1/8

Balvinder's work in a day=1/10

Chander's work =1/y

To complete together in 4 days

 $\frac{1}{8} + \frac{1}{10} + \frac{1}{y} = \frac{1}{4}$  $\frac{18}{80} + \frac{1}{y} = \frac{1}{4}$ 

 $\frac{1}{v} = \frac{1}{4} - \frac{9}{40}$ 

y 4 40 ⇒ (10-9)/40

⇒ 1/40

Work 1/y=1/40; [ y=40]

Chander's time to complete work is y=40

#### 33. ANS.D. 7 4/5 days



Total work =30w

Amit's one day work =2w

Balbir's one day work=3w

Amit alone works for 3 days=3 x 2w=6w done

Remaining work 24w which is done by Amit and Balbir together (2w+3w)=5w

So days to do remaining work=24/5 = 44/5

Total days to complete the work is= 3 + 44/5 = 74/5

#### 34. ANS.D. 8 2/11 h





Work together total work by one hour=6w+5w=11w

Time =Total work/ (1h work together)

⇒ 90/11= 8 2/11 h

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#### 35. ANS.B.4h



For the first one hour all the three pipes and hole at bottom did their work so=12+3+4-4=15 work done:

72w-15w=57 Work remaining

Total three pipes do=12w+3w+4w==19w

Time to complete the tank= total work / together work

==>57/19=3h

Total time =1h+3h $\rightarrow$  4h

#### 36. ANS.C.Rs.150



Total work=7wPayment 350 is total for (3+4)w total =7w Rajesh's work is 3 so Rajesh's payment=  $(350/7) \times 3$  $\Rightarrow$  3x50 ⇒ 150 Rs

#### 37. ANS.A.10 days

Men's work when he complete 15 days = (4x5) + (5x5) + (6x5)

=>20+25+30

=>75w

if he works 8h-0.5h(break) = 7.5h per day

So time= Total work / per day work

=>75/7.5

=>10 days

38. ANS.B.20 days

Men Boy work ratio = 4:1

So 1Men=4Boys;

15 men=60boys; Total work=60x17

In 15 men 3 men are replaced by 3 boys so 12 men and 3 boys do their work

12men +3boy=48+3=>51 boys;

Time by 51 Boy=  $(60 \times 17)/51 = >60/3 = >20$ days

#### 39. ANS.D.33 days

Mohan : Kamlesh work= 2: 1

Together work 3(per day) completed in 22 days so total work=22x3;

Mohan alone completed in =>(22x3)/2=>33 days

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40. ANS.C. 26 2/3



Together work=1w+2w=3w

Together time=80/3 => 26 2/3

41. ANS.D. 3 3/7 days



All together work=Total work/per day together work =>24/(4+2+1)

=>24/7 =>3 3/7 days

42. ANS.B.300/47



(A+B+C)'s together work=>20+15+12=>47

(A+B+C)'s together Time=Total work/(A+B+C)'s together work

=>300/47

43. ANS.D.300/19

A's one day work=1/30

B's one day work=3/100

(A+B)'s one day work=1/30+3/100

=19/300

The work will be completed by both A & B will be=300/19

44. ANS.C.36

A=x day; B=2x day;

1/x + 1/2x = 1/12

3/2x=1/12

3\*12=2x=36 (working day of B)

SO B can complete the work in 36 days

# 45. ANS.D.30 days

Karan's work completed in =>x days;

Shyam's work completed in=2x days;

1/x + 1/2x = 1/20

3/2x=1/20

2x=60;

Karan's time x=30 days;

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#### 46. ANS.D.14 days



X alone for 4 days=4\*5=20 work done

Remaining work=140-20=>120

Remaining work done by X and Y both (5+7)=12;

=>120/12=>10 days

Total task time=10 days +4 days=>14 days

#### 47. ANS.B.15

Ameesha's work per day=1/14

Bhavya's work per day=1/35

Chitra's work per day=1/x

Together=>1/14+1/35+1/x=1/6

1/x=1/6-1/14-1/35

1/x = 1/6 - 5/70 - 2/70

1/x=1/6-7/70

1/x = 1/6 - 1/10

$$1/x=(5-3)/30 =>2/30=>1/15$$

x=15 days

Chitra can do the work in 15 days.

#### 48. ANS.B.10.5



(A+B) together work for 3 days=(3+2)3=>15 works done;

Remaining work (36-15=21w) done by B alone.

B's time=Remaining work /B's per day work=>21/2=>10.5 days

# 49. ANS.A.8.57



Together time to complete work=60/(4+3) = >60/7

=>8.57

# 50. ANS.A.13 1/3 days

If efficiency of B=100; A=50;

C=Half of A+B=(100+50)/2=75;

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Efficiency of A+B+C=50+100+75=>225

Efficiency of C \*Time of C = Efficiency of (A+B+C) \*Time of (A+B+C).

75\*40=225\*Time of (A+B+C)

Time of (A+B+C) = (75\*40)/225 = >40/3 = >131/3 days

# 51. ANS.B.1h 36 min

No of pipes and Time are inversely proportional.

6 pipes=1h 20minn=>80 min;

5 pipes=?

6\*80=5\*x

X = (6\*80)/5 = >96 min;

96 min=1h and 36 min:

52. ANS.D.42 days

Rinku's one day work=2w;

Deepak's one day work=1w;

Together they work for 28 days; Total work=28(2+1)=84w

Rinuku's time to complete the work=Total work/Rinuku's one day work

=>84/2

=>42 days

# 53. ANS.C.20 days

Vicky's time to complete the work 40 days; But 8 days work done

So Remaining work=(40-8)=32 days work of vicky.

Vicky's 32 days work can be done by Gurpreet in 32 days.

So Vicky and Gurpreet efficiency is same;

Gurpreet's time to complete work also 40 days.

Together Time to complete work=1/(1/40)+1/40) => 20 days

# 54. ANS.C.3 days

12 men complete work in 16 days

32 women complete in 12 days (can interchange)

12 women can complete the work in 32 days

So men and women count same by comparing

1 men=2 women; Total work =32;

Work done by men to women=  $32:16 \rightarrow 2w:1w$ 

Eight men and eight women together worked for 12 days

8 Men +4 Men (8Women)=12men worked for 12 days

We know that 12 men complete their work in 16 days

So (16-12) = 4 days work of 12 men is remaining

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# Time & Work Questions Asked in Railway NTPC Exam 2021

Womens dropped (8 Men previously)+ Now 8 men joined=16men

12 men can complete the remaining work in 4 days then 16 men complete that work  $\rightarrow$  $(12x4)/16 \rightarrow 3$  days

55. ANS.C.10  $\frac{1}{12} + \frac{1}{18} + \frac{1}{15} = (2(X + Y + Z))$  $\frac{15}{180} + \frac{10}{180} + \frac{12}{180} = 37/180 \rightarrow 2 (X+Y+Z)$  $(X+Y+Z) = \frac{37}{360};$  $1/(X + Y + Z) = 360/37 = 9.72 \sim 10 days$ 56. ANS.C.15 days Efficient of A: B = 100% : 80% = 5:4Time for A : B = 4:5 $\frac{12}{4}$  x 5=15 days 57. ANS.C.15 days



B alone work in 5 days so  $5 \ge 2 = 10$  work done

Balance 50 we must be done by A and B =50/5=10 days

Total days =10 (by A and B)+5 =15 days

58. ANS.C.9 days

Time A:B= 4:3 → 12:?=9

59. ANS.D.7 <sup>1</sup>/<sub>2</sub> days

Efficiency of A+B+C = 1/5

Efficiency of B+C+D = 1/10

Efficiency of C+D+A =1/15

Efficiency of B+D+A =1/30

Efficiency of 3 (A+B+C+D)=

$$\left(\frac{1}{5} + \frac{1}{10} + \frac{1}{15} + \frac{1}{30}\right) \rightarrow (6+3+2+1)/30 = 12/30$$

Efficiency of (A+B+C+D)=12/90

Time to complete the work by (A+B+C+D) is =90/12 -> 7 1/2

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The time taken(in hours) by ABC to fill the tank will be= $180(12+10) \rightarrow 190/22 = 8\frac{2}{11}$ 

#### 61. ANS.A.26 days

A left 11 days before completion; B left 8 days before

So C worked alone for last 8 days ;





C alone 8 days =8 \*3=24 w

B&C together 3 days= (4+3) \*3=21W

Remaining work=240-24-21=195w

This 195 W should be done by A,B and C together

⇒ 195/(6+4+3)⇒ 195/13=15

So total days =15+3+8=26 days

62. ANS.A.16

Total Work=Time X No of people

30 x 40 =75 x?

?=(30 x40)/75

?=16

63. ANS.C.6

3men or 6 boys so 3 men=6 boys  $\rightarrow$ 

1 men = 2 boys; 6 men = 12 boys

6 boys can complete the task in 20 days

6men and 8 boys =12boys+8 boys=20boys

6 b x 20 d=20b x ?

6 days

#### 64. ANS.D.15

Avinash, Bhuvnesh and Chaman can complete a piece of work in 20,30 and 60days

LCM of 20,30,60 =60w (Total work)

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# Time & Work Questions Asked in Railway NTPC Exam 2021

Avininash work per day =60/20=3w

Bhuvnesh work per day =60/30=2w

Chaman work per day =60/60=1w

Avininash work every day Bhuvnesh and chaman worked with avinash in every third day so Work done by 3 days=3(3)+3=12w

3days=12w; then 60 w should be done by15 days

# 65. ANS.B.60 days

Let A alone take x days

Then C alone will take 2x days

So B in 1 day does 1/20 - 1/x

So B in 1 day does 1/30 -1/2x

1/20 - 1/x = 1/30 - 1/2x

MULTIPLY BY 60x

3x - 60 = 2x - 30

x= 30

2x= 60 days 66. ANS.B.18 days

A B
40 60
120(W)
3 2 (work per day)

A alone work for last 10 days=30w done

Remaining work=120-30**→**90W

A and B together work per day=3+2=5W

AB worked days=90/5=18 days

Along with A, B also worked for 18 days

# 67. ANS.B.10 days

15male work =20 female work

3male work = 4 female work

30 male employees and 12 female employees = 40+12 => 52 female work

20 female complete work in 26 days, then 52 female work in

20x26=52 x ?

X=10 days

68. ANS.A.40 days

Harish and Bimal's 5 days work was done by Harish alone in 10 days.

So work done by Harish +Bimal =2x; work by Harish=x

So time between (Harish +Bimal : Harish)= 1:2

⇒ 20: ? ⇒ 40 days

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