



## MATHS

# BOOKS - PEARSON IIT JEE FOUNDATION

## TIME AND WORK

Solved Example

**1.** If 20 men take 30 days to complete a job, in

how many days can 25 men complete the job?



day should 10 men work to complete the same

job in 20 days?

**Watch Video Solution** 

**3.** A piece of work can be done by 16 man in 8 days working 12 hours a day. How many men ar

needed to complete another work,which is three times the first one, in 24n days working 8 hourse, a day?

Watch Video Solution

**4.** A can do a piece of work in 9 days and B can do the same in 12 days. In how days can the work be completed if A and B work together?

**5.** A and B working together can do a piece of work in 12 days and A alone can caomplete the work in 18 days. How long will B alone take to complete the job?

**Watch Video Solution** 

**6.** A and B working together can do a piece of work in 12 days, B and C can do it in 15 days nd C and A can do the same work in 20 days b.

How long would each of them take to

complete the job?

### > Watch Video Solution

7. To complete a certain work, C working alone takes twice as long as A and B working together. A working alone takes 3 times as long as B and C working together. All the three together can complete the work in 5 days. How long would each take to complete th work individually?





**8.** If 4 men or 5 women can construct a will in

82 days, the how long will it take for 5 men

and 4 women to do the same work?

Watch Video Solution

**9.** While 4 men and 6 boys can do a piece of work in 2 days, 1 man, and 3 boys can do the same work in 6 days. In how many days can 1 man and 1 boy complete the same work?



**10.** If X works 3 tims as fast as Y and is able to complete, a work in 40 days less than the number of days taken by Y, then find the time in which they cn complete the work working together.



**11.** A and B cand o a pieces of work in 10 days and 15 days, respectively. They started the work together but B left after sometime and A finished the work in 5 days. After how many days (from the start) did B leave?

**Watch Video Solution** 

**12.** A and B can do a piece of work in 6 days and 9 days respectively, they work on alternative days starting with A on the first day. In how many days will the work be completed ?

## Watch Video Solution

**13.** P,Q and R can complete a job in 20 days, 30 and 40 days respectiely. They started working on it. Q and R left afte working for certain number of days and P alone completed the remaing work 7 days. Find the time taken to complete the job (in days) **14.** Y is thrice as efficient as Z who is half as efficient as X,X,Y and Z can complete a job in 25 days. Find the time in which X and Y can complete it (in days)

- A. 30
- B. 36
- C. 40

D. 45

#### **Answer:**



15. A, B and C can do a piece of work in 4 days , 5 days, and 7 days, respectively get Rs.415 for completing the job. If A,B and C have worked together to complete the job, what is A's share?



**16.** The ratio of the efficientics of X.Y and Z is : 3: 4: 5. The total amount of wates of X.Y and Z working for 20 days. 10 days and 12 days respectively was Rs. 6400. Find the amount of their total wages, if X,Y and Z worked for 30 days, 15 days, and 8 days respectively (in Rs.)

A. 5700

B. 9500

C. 7600

D. 8850

#### Answer:



**17.** Two pipes A and B can fill a tank in 12 minutes and 18 minutes respectively. If both the pipes are opened simultaneously, how long will they take to fill the tank ?



**18.** Pipe A can fill a tank in 12 minutes,pipe B in 18 minutes and pipe C can empty the full tank in 36 minutes. If all of them are opend simultaneously, find the time taken to fill the empty tank.

**Watch Video Solution** 

**19.** Two pipes A and B can fill a cistern in 15 hours and 10 hours respectively. A tap C can empty the full cistern in 30 hours. All the three

taps were open for 3 hours, when it was remembered that the emptying tap had been left open. It was then closed. How many hours more would it take for the cistern to be filled?

A. 3 hr 30 min

B. 3 hr 36 min

C. 4 hr 35 min

D. None of these

#### Answer:



**20.** Ten pipes ar fitted to a tank. Some of these are filling pipes while the others are emptying pipes. Each filling pipe can fill the tank in 8 hours. Each of emptyting pipe can empty it in 16 hours . All the pipes are opened simultaneously. The tank takes 2 hours to be filled. How many filling pipes are fitted to it? Choose the correct answer from the following option.

B. 7

C. 9

D. 6

Answer:

Watch Video Solution

**Test Your Concepts** 

1. A can read a book in x minutes . What part of

the boon can he read in k minutes?



**2.** Work done by A in 3 days is equal to the work done by B in 4 days. What is the ratio of time taken by A and B to complete a work?



**3.** A can complete 
$$\frac{2}{3}$$
 of work in 6 days. In what time can he complete  $\frac{4}{9}$  of the work ?

**4.** A can do a work in x days and B can do the same work in y days. If x > y , then who can do more work in 6 days?

Watch Video Solution

5. If x men can do a work in y days, then a man

can do the same work in 2y days. (True/False)

**6.** A is twice as good workman as B.A takes 6 days the complete a work. In what time can B complete the work?

Watch Video Solution

**7.** A and B together can do work in 20 days, B and and C and do the same work in 60 days. Who is the most efficient among A,B and C?

**8.** A and B the completed work and divided the earings in the ratio of 2: 3. What is the ratio of time taken to complete the work by A and B, respectively?

**Watch Video Solution** 

9.8 men can knit 8 baskets in 8 days. In how

many days cam 3 m en knit 3 baskets?

**10.** A man can load one box in 9 minutes. A truck can contain 8 boxes. If 16 men load for one and a half hour, how many trucks will be loaded?



**11.** Pipe A can fill a tank in 40 minutes . Pies B can empty the tank in 30 minutes . If both the pipes are opened simultaneously when tank is half full, then will be tank become full or empty?



of the 6 litres per minute. What is the capacity

of the tank?



**13.** If A and B cadn do a work in x and y days, respectively, then time taken by A and B



\_\_\_\_\_

**15.** 12 men or 18 woman can do a work in 16 days. In how many days 12 men and 18 woman can do the work?

Watch Video Solution

**16.** A, B and C can do a work in x,3x and 5x days,

respectively. They worked together and earned

Rs. 460. What is the share of B?

**17.** A and B can do a work in 20 and 30 days, respectiveyl .They completed the work in 10 days with the help of C. In how days can C alone do the work?

Watch Video Solution

**18.** A can point 6 walls in 5 days. B can point 8 walls (of the same area) in 4 days. Working together, in hown many days can they point 48 walls (of the same area)?

**19.** The ratio of efficienciess of A, B can C is 2:3:4. Working together, they can coplete a work in 20 days. In how many days can C alone finish the work?

**Watch Video Solution** 

**20.** On working 10 hourse a day, 15 men can complete a piece of work in 20 days. In how many days can 30 men complete if they work 5 hours per day?



**21.** A and B can do a work in 20 days, B and C in

40 days and A and C in 30 days. Who is the

most efficient among the the three perosn?



**22.** A and B can finish a work together in 12 days, and B and C together in 16 days. If A alone works for 5 days and then B alone

continues for 7 days, then remaining work is done by C in 13 days. In how many days can C alone finish the complete work?

Watch Video Solution

**23.** Work done by (x+4) mean in (x+5) days is equal to the work done by (x-5) men in (x+20) days. What is the value of x?

**24.** Pipe A in fill a tank in 15 horurs Pipe A and Pipe B together can fill it in 10 hours Pipe B can fill 8 liters per minute. Find the capicity of the tank

**Watch Video Solution** 

**25.** 18 men can construct 200 m long wall in 16 days working 9 hours per day. In how many days can 36men construct 500 m long wall working 6 hours per day?



**26.** Vianay and Vikram can complete a work in 48 and 36 days, respectively . If they work on alternate days beginning with Vinay, in how many days will the work be completed?

Watch Video Solution

**27.** A is twice as efficient as B. Time taken by B to complete  $\frac{4}{7}$  part of the work is 6n days more than the time taken by A to complete  $\frac{3}{7}$ 

part of the same work. In how many days can A

alone do the work?



**28.** The ratio of work efficiency of a man and a woman is 3:2. A woman can do a work in 30 days. In how many can 4 men and 4 women do the work?

**29.** 12 men of 15 women can do a work in 40 days. 8 men and 10 women can do the work in how many days?



**30.** 12 men and 15 women can do a work in 6 days, and 6 men and 12 women can do it in 10 days, in how many days can 8 men and 10 women do the same work?



**31.** Certain sum is sufficient to pay wage to A for 15 days or to B for 30 days. For how many days is the sum sufficient to pay both A and B?



Watch Video Solution

**32.** A,B and C can do a work in 20,25 and 30, respectively. They together started the work, but B adn A left the work 7 days and 4 days, respectively before completion of the work. How many days did C work for?



**33.** Anand is 50% more efficient than Bharath and Bharath is 100% more efficient that Chandu. Working together, they can complete a work in 10 days. In how many days can Anand alone do the work?



34. 300 men can construct a200m long wall in12 days working 8 hours a day. In how many

days can 120 men construct 180 m long wall

working 9 hours per day?



**35.** A,B and C can complete a piece of work in 4 day, 8 days, and 12 days, respectively. They worked together and earned a total of Rs. 660. Find the B's share (in rupees)


**36.** Thirty men can dig a well in 10 days on working 8 hours a day. They started the work but after 2 days, 10 men left. How many hours a day should the remaining men work to complete it on time?

Watch Video Solution

**37.** Time taken by A to complete a work is 7 days more than the time taken by B to

complete the same work. Working together they can complete the work in 12 days. In what time can A alone complete the work ?

**38.** A is 20% more efficient than B.B can do a piece of work in 20 days. In how many days can

A do the same work?

Watch Video Solution

Watch Video Solution

39. Three men or five women can complete a

piece of work in 8 days. In how many days can

6 men and 6 women complete it?



**40.** A certain number of men completed a job in 10 days. If there 5 more men, it could have been completed in 8 days. How many men will be required to complete it ?



**41.** Two pipes A and B can fill a tank in 20 and 24 minutes. Resepctively. Pipe C can empty the tank in 10 minutes. Pipes A and B are opened for 5 minutes and then pipe C is also opend. In what time can tank become full or empty after opening pipe C?

Watch Video Solution

**42.** a can complete a piece of work in 15 days. B can complete it in 10 days. With the help C,

they can complete it in 4 days. They all worked

togther and earned a total of s. 750. Find C's

share.

Watch Video Solution

**43.** Time taken by 8 men and 6 boys is 3 times the time taken 15 men and 30 boys to complete a world if. 8 men and 12 boys can do a work in 34 days. Then how many men can do in 17 days?

44. Prakash, Rohit and Sameer cam complete a job in 1 days, 20 days, adn 10 days, respectively. They sarted the job but Prakash was unwell on the first day, he could not work at his full capacity and Prakash left after a day. The other two completed the job. Rohit was pair Rs. 17,000 out of the total of Rs. 60,000 paid to them. At what percentage of his full capicity, did Prakash work on the first day?



**45.** Pipe A and pipe B can fill a tank in 24 minutes and 28 minutes , respectively. IF both the pipes are opened simultaneously, then after how many minues. Should pipe B be closed such that the tank becomes full in 18 minuts ?

> Watch Video Solution

**46.** In a group, there were M men. They sarted working on a job of 330 units. Each man could do 1 units in 1 day. After each day of wark, a

man of the sam efficiency as each man in the group in he group. The job was completed at the end of 11 days. Find M

View Text Solution

**47.** Ram and Shyam can complete a job in 20 days. If they work together. If they complete it by working on elternate days, in how many days will it be completed?

Watch Video Solution

**48.** A,B and C can complete a job in 20 days, 30 days, and 40 days, respectively. They worked for 6 days and then A left. B and C completed the job. Find B's wages in the total wages of Rs. 20,000 paid to them ( in Rs.)

Watch Video Solution

**49.** 10 women can complete a job in 12 days . 4 of them started working on the job. After every 4 days, a women joined the group. Every woman joinin the group has equal capcity as

any woman in the group. Find the time taken

to complete the job ( In days)



**50.** Prakash, Ramesh and Suresh started a job. After 2 days, Prakash left. After another 2 days, Ramesh left. In another 2 days. Suresh completed the reaminin part of the job . If Prakash can complete the same work in more than 6 days, and Ramesh can complete it in more than 12 days, who got the highest share

of the wages?





**1.** A is thrice as efficient as B.A and B cam complete a piece of work in 12 days. Find the number of days in which A alone complete it.

B. 16

C. 20

D. 32

#### Answer: B

Watch Video Solution

**2.** A and B can complete a piece of work in 15 days and 10 days, respectively . They work together for 4 days and then B leavs. In how

many days will A alone complete the remaining work? A. 6 B. 8 C. 5 D. 10 **Answer: C** Watch Video Solution

**3.** Sunny can complete a piece of work in 30 days He worked for 6 days and left. Bunny completed the remaining work in 16 days. In how many days can the entire work kbe completed if they worik together?

- A. 8
- B. 12
- C. 16

D. 20

Answer: B



**4.** B is twice as efficients as A, who works half as fast as C. If, A, B and C can complete a piece of work in 20 days. In how may day can B and C together complete it?

A. 50

B. 100

C. 25

D. 30

## Answer: C



**5.** Where 6 men and 9 women can complete a piece of work in 10 days, What is the time taken by 4 men and 6 women to complete it ?

A. 10 days

B. 12 days

C. 15 days

D. 18 days

## Answer: C



**6.** A and B complete a piece of work 12 days B and C can complete in 24,days. A and C can complete it in 16 days. In how many days can B alone complete it?

A. 16

B. 32

D. 20

#### Answer: B

# Watch Video Solution

**7.** A can do a piece of work in 34 days. He worked for 14 days and then left. B completed the remaining work in 30 days. In how many days can B alone complete the work?

B. 51

C. 46

D. 62

Answer: B

Watch Video Solution

**8.** Certain men can do a piece of work in 22 days. If the number of men decreses by 55, then they will take 11 days more to comlete the

same work. Find the number of men present

# intially.

A. 165

B. 155

C. 185

D. 175

Answer: A



**9.** Pipe A can fill a tank in 20 minutes and pipe B can fill the tank in 30 minutes. Both the pipes can fill at the rate of 8 liters per second. What is the capcity of the tank (in litress) ?

A. 5670

B. 6570

C. 6750

D. 5760

Answer: D





**10.** A, B and C do a piece of work in, 8,16 and 24 days, respectively. They work together and earn Rs. 528. What is the share of B?

A. Rs. 144

B. Rs. 152

C. Rs. 176

D. Rs. 168

#### Answer: A



**11.** A work three times as fast as B.B takes 56 days more than A to complete a work. Working together in how days can they complete the work?

- A. 24
- B. 21

C. 27

D. 29

### Answer: B



**12.** A, B and C can complete a piece of work in 25, 30 and 50 days. Respectively. They started the work together But A and C left 2 days before the completion of the work. In how many days will the work is completed ?

A. 14

C. 18

D. 10

#### Answer: B



**13.** When 6 men and 8 women can do a piece of work in 15 days, then 11 men and 16 women can do the same work in 8 days. In how many days can 4 men and 4 women do the work ?

A. 28

B. 24

C. 26

D. 30

Answer: B



**14.** A and B can do a piece of work in 12 days, B and C in 15 days and A and C in 20 days. In how many days can each alone do the work? A. 30,20,50

B. 30,45,60

C. 30,20,60

D. 20,30,50

Answer: C

Watch Video Solution

**15.** P and Q can complete a certain in 28 days and 56 days, respectively. P works for 7 days,

and then Q joins P. In how many more days,

can they complete the work?

A. 7

B. 14

C. 21

D. 28

Answer: B



**16.** A piece of work in be done by 64 men in 17 days working for 9 hourse per day. In how many days can 34 men do a piece of work  $\frac{8}{3}$  times of the previous one one on working 8 hore per day?

- A. 92
- B. 98
- C. 96

D. 94

Answer: C



**17.** P and Q can do a piece of work in 12 days 16 days, resepetively. With the help of R, they completed the work in 5 days and earn Rs. 912. What is the share of R?

A. Rs. 249

B. Rs. 247

C. Rs. 243

D. Rs. 245

### Answer: B



**18.** A piece of work can be done by 9 men and 15 women in 24 days. In how many days can 15 men and 15 women do the same work ?

View Text Solution

**19.** A piec of work can be done by 12 men in 24

days. They started the work and after 4 days

then 6 more men joined them. How many days will they all take to complete the remaining

work?

A. 
$$12\frac{1}{3}$$
  
B.  $13\frac{1}{3}$   
C.  $11\frac{2}{3}$   
D.  $13\frac{2}{3}$ 

#### **Answer: B**



**20.** A and B can complete a piece of work in 4 days and 8 days, respctively. They work on alternate days and A starts the work. In how work in may days will the work be completed

A. 3

**B.**4

C. 5

D. 6

# Answer: C



**21.** X and Y can do a piece of work in 4 days and 6 days resepectively. If Y works on the first day and they work on alternate days, in how many days will twice the amount of work be complete?

A. 
$$9\frac{2}{3}$$
  
B.  $10\frac{2}{3}$   
C.  $9\frac{1}{5}$   
D.  $9\frac{1}{2}$ 

### Answer: A



**22.** Three marchines P,Q can do a piedce of work in 7,9 and 10 days, respectively. Deu to problem in P and Q, they are working only ay 70% and 90% of their effiency, resepectively. In how many days can P,Q and R together do the work ?

A. 
$$1\frac{2}{3}$$
 days

B. 
$$2\frac{1}{3}$$
 days  
C.  $2\frac{3}{2}$  days  
D.  $3\frac{1}{3}$  days

## Answer: D

Watch Video Solution

**23.** A, B and C can complete a piece of work in 10 days, 20 days and 25 days, respectively. If they tak 40 days to complete a piece of work,
then in how many days can C alone complete

the work?

A. 65 days

B. 76 days

C. 95 days

D. 190 days

Answer: D

Watch Video Solution

**24.** A group of 5 people can do a piece of work in certain number of of days. If 4 more people join the group, they take 12 days less to do the same work. In work days can a group of 3 people do the work ?

A. 30 B. 45 C. 15

D. 60

**Answer: B** 

**25.** A and B can do a piece of work in 6 days and 9 days respectively, they work on alternative days starting with A on the first day. In how many days will the work be completed ?

A. 
$$10\frac{5}{6}$$

C. 
$$12\frac{1}{3}$$

D. 13

#### Answer: B

## Watch Video Solution

**26.** A, B and C can complete a piece of work in 27 days, 36 days, adn 45 days, respectively. B and C started the work. After 11 days. A joined them. If B left 12 days before its completion, in how many days will the work be completed?

B. 20

C. 15

D. 25

## Answer: B

Watch Video Solution

**27.** If P can produce 60 cakes in 9 days and Q can product 70 cakes in 21 days, how many days will take to produce 100 cakes if they work together?

A. 8

B. 9

C. 10

D. 11

Answer: C

# Watch Video Solution

**28.** 15 men and 25 men women can dig an area of  $880m^2$  in 8 days. In how many days can 20 men adn 12 women dig an area of 1040  $m^2$  , if

each man can dig twice the area of the each

women can dig in the same amount of time?

A. 6 days

B. 8 days

C. 10 days

D. 2 days

Answer: C



**29.** P and Q can do piece of work in 10 days in 10 days and 35 days. Respectively. If they work on alternate days begnining wit Q, in how may will the work be completed?

A. 
$$15\frac{5}{7}$$
  
B.  $15\frac{5}{7}$   
C.  $16\frac{4}{7}$   
D.  $15\frac{4}{7}$ 

Answer: B





**30.** Ram , Shaym and Tarun are three people on a job. Each takes m times the time taken by other two, to comleted a job. Find m

A. 1

B. 2

$$\mathsf{C}.\,\frac{1}{2}$$

D. None of these

#### Answer: B





# Level 2

**1.** Anoop can complete a piefe of work in 10 dasy working for 8 horus a day. Swaroop can comlete in in 12 days working 10 hours a dya. How many days will take to complete it if they work 12 a day ?

A. 4

B. 6

C. 8

D. 10

#### Answer: A



**2.** Two taps P and Q can fill a tank in 12 hours and 18 hours, respectively. Both taps were opened at 7:00 am and after some time, Q was closed. It was found that the tank was full at 3:00 At what time was Q shut ? A. 10:00 am

B. 12:00 noon

C. 1:00pm

D. 2:00 pm

Answer: C

Watch Video Solution

**3.** Anand completed one-fifth of a piece of work in 4 days. He was then assisted by Bhargav and they completed the remining

work in 8 days. Bhargav can complete the work

in \_\_\_\_\_ days

A. 12

B. 16

C. 20

D. 24

Answer: C

**Watch Video Solution** 

**4.** P works 25% more efficinetly than Q and Q works 50% more efficiently than R. To complete a certain project. P alone takes 50 days less than Q. if in this project. P alone works for 60 dasy and then Q alone works for 125 days, then in how many days car R alone can complete the remaining work?

A. 50

B. 75

### C. 100

D. 150

#### Answer: B

## Watch Video Solution

**5.** A man take 80 days to complete a job. To complete this job, 4 men, 8 women and 4 machines take 5 days. Alternatively, 4 men, 1, women and 2 machines take 10 days to complete the job. Find the time taken by a women to complete the job (in says)

A. 90

B. 100

C. 105

D. 120

Answer: D



6. Two taps A and B can fill a tank in 10 minutes

and 15 minutes respectively. In what time will

the tank be full if tap B was opened 3 minutes

## after tap A was opened ?

A. 4.2

 $\mathsf{B.}\,6.2$ 

C.7.2

D. 8.2

## Answer: C



7. Two men are as efficient as 3 women who are as efficient 4 machines . The under of men, women, and machines aer in the ratio of 3:4:5 and they have completed a job. They are paid a total of Rs. 4900 for it. Find the total sharte of women. (in RS.)

A. 1200

B. 1800

C. 2400

D. 1600

## Answer: D



**8.** There are ten taps fitted to a tank. The filling taps that are filling the tank are five in number adn each takes 5 hours to fill the tank. The emptying taps are alos five in number each tap takes 6 hours to empty to tank. In how many hours can the empty tank be filled, if all the taps are opened simultaneously?

A. 6

B. 5

C. 10

D. 2

Answer: A



**9.** P car complete a piece of wark in 3 days. Q takes triple the time taken by P,R takes 4 times that taken by Q and s takes double the time

taken by R to complete the same task. They are grouped in two pairs. One of the pairs takes  $2\frac{1}{2}$  times the taken by the other pair to complete the work. which is the second pair?

A. P,S

B. R,R

C. Q,R

D. Q,S

Answer: A



**10.** There are 25 workers in a group. Each can do 1 unit/day. They stary a job of 330 units . After each day, a worker of the same efficieny as each worker in the group joins the group. The job was completed in x . Find x

A. 9

B. 10

C. 1

D. 12

## Answer: C



**11.** P,Q and R together can complete 50% of a work in 2 days. All three start the work but after two days Q. left. P and R alone in 8 days. In how many days can P alone complete the work?

A. 6

C. 10

D. 12

#### Answer: B



**12.** A and B are two taps which can fill a tank in 6 hourse and 9 hours, respectively. C is an emptying tap, which can empty the tank in 7.5 hourse Tap B is opened 3 hours after tap A is opened. For how long does tap C to be ketp opne if the tank has to be filled in 6 hours ?

A. 
$$1\frac{1}{2}$$
 hours  
B.  $2\frac{1}{2}$  hours

- C. 3 hours
- D. 5 hours

Answer: B



**13.** Anand, Raju Suresh and Venkat together pro-duced 392 pieces of an item in 6 hours Suresh is four times as efficient as Anand and is one-third less efficeient than Venket. Raju s half as efficient as Vekent. How many pieces would Raju have produced, if he worked for 8 hours?

A. 84

B. 112

C. 28

D. 26

#### Answer: B

## Watch Video Solution

**14.** A worker has to complete a job of 175 units. On each day starting from the second, he does 75% of the part of the job he did on the previous day. Find the number of days in which the job is completed if he did 36 units of work on the 3rd day. A. 3

B. 4

C. 5

D. 6

Answer: B

# Watch Video Solution

**15.** A is twice as good a workman as B. A takes

6 days to comlete a task. What time does B

take to complete the work (in days)?

A. 3

B. 6

C. 9

D. 12

Answer: D



16. 27 men can dig a well in 20 days working 5hours a day. They start digging it. After 4 days,12 men leave. How hourse a day should the

remaining men work to complete digging it by

the scheduled date ?

A. 6

B. 8

C. 10

D. 9

Answer: D



**17.** One, man can load 1 box in a truck in 5 minutes. How many full trucks can 8 men load in 45 minutes given that the truck can hold 10 boxes?

A. 8

B. 7

C. 6

D. 5

**Answer: B** 





**18.** Five men or ten women can complete a job in 20 days. Find the time in which four men and four women can complete it (in days)

A. 15

B. 20

C. 
$$13\frac{1}{3}$$
  
D.  $16\frac{2}{3}$ 

### Answer: D



**19.** A can do a task in 18 days. He works for 10 days and leaves. The remaining workin completed by B adn C. If they get Rs. 9000 for completing the work, then who receives more share in the earings?

A. C

B.A

С. В

D. Cannot say

### Answer: B



# Level 3

**1.** Theere are 4 people whow can complete a work in 19 days. Individually. The work is started by one of people on the first day. Everyday one more person joins and starting from the 4th days, all of the 4 people work be completed?

A. 
$$6\frac{1}{4}$$
 days  
B.  $6\frac{1}{19}$  days  
C. 7 days  
D.  $7\frac{1}{19}$  days



**2.** The ratio of the efficiency of P,Q and R is 2:3:5. The total wages of P,Q and R working for 14, 24 and 20 days, respectively are Rs.

6000. Find the total wages of three, if P works

for 9 days, Q for 14 days and R for 8 days.

A. Rs. 3000

B. Rs.2860

C. Rs.2450

D. Rs.3240

Answer: A


**3.** Amar, Bhavan and Chetan can make a total of 8 dosas in one minutes. They have to make a total of 80 days. Amar started making dosas After some time, Bhavan anc Chetan took over and completed the job and Amar made atleast 5 doss per minutes, how long did Amar work alone (in minutes)?

A. 9

B. 10

C. 11

D. 12

#### Answer: B

## View Text Solution

**4.** Eswar and Harish take 12 days and 16 days, respectively to complete a job. Ganesh is atleast as efficient as Harish but almost as efficient as Eswar. Ganesh and Harish work on alternate days and completed the job in x

days. Which of the following can be the value

of x?

A. 8

B. 12

C. 14

D. 17

Answer: C



**5.** Pipes X,Y and Z are fitted to a tank. Each of Y and Z can fill the tank in 6 hours. The efficiency of X, which is an emptying pipe, is half Y. if X is fitted at one fourth of the heighest from the base and one fourth of the heigth of tank from the base and all the pipes ar opened simultaneously, the tank be filled in hours.

A. 4  
B. 
$$3\frac{1}{4}$$
  
C.  $3\frac{1}{2}$ 

D. 3

#### Answer: B

# View Text Solution

**6.** X works four times as fast as Y.Y takes 60 days more than X to complete a job. Find the time in which X and Y working together can complete the job ( in days)

B. 10

C. 16

D. 12

# Answer: C

Watch Video Solution

**7.** One man and 7 women can complete a job in 16 days. 19 men and 10 women can complete it in 3 days. Find the time in which 6 men and 6 women can complete it ( in days) A. 8

B. 6

C. 9

D. 12

Answer: A



**8.** M and N can complete a job in 18 days and 20 days, respectively. They worked on it on

alternative days starting with M. Find the time

taken to comlete it (in day)

 $\sim$ 

A. 
$$18 \frac{9}{10}$$
  
B. 19  
C.  $18 \frac{3}{5}$   
D.  $18 \frac{3}{10}$ 

Answer: A



**9.** Ganesh, Harish Sruesh and Mahesh worked together to produce 558 pieces of an item in 12 hours. Ganesh is twice as efficient as Harish and is five sixth as efficient as Mahesh. Mahesh is thrice as efficient as Suresh. How many pieces can Mahesh produce in 9 hours?

A. 144

B. 162

C. 126

D. 180

## Answer: B



**10.** The efficiency of A, B and C is the same. They started working on a certain job. After 5 days a leaves, after 5 moere days B leaves and C completes the remaining work in 5 more days. Find the time taken by eahc of them alone to complete the job. (in days)? B. 30

C. 40

D. 45

### Answer: B

Watch Video Solution

**11.** 18 men and 36 women can level an area of 810 sq. in 6 days. The ratio of the areas that each man and each woman can level in the same amount of time is 3:1. Find the number

of dayss is which 22 men adn 14 women can

level an area of 120 sq. m.

A. 8

B. 12

C. 9

D. 10

Answer: D



**12.** There are 15 workers in groups in .Each can do 1 units per day. All the workers started a job of 220 units. After each day, a worker who can do 1unit per day joined the group. Find the taken to days

- A. 11
- B. 12
- C. 13

D. 10

**Answer:** A

**13.** Amar, Bhavan and Chetan can complete a job in 24 days, 36 days, and 48 days, respectively. Amar, Bhavan and Chetan started it. After 6 days, Amar left. The order tow continued to work. Bhavanleft 15 days the comletion work. Bhava left 15 days, before the completeion of the job. Chetan comlete the remaining work. Find the total time teaken to complet the job . ( in days)

A. 21

B. 24

C. 27

D. 30

Answer: B



**14.** Theere are 5 men in group. Each man can complete a job in 35 days. One of them starts it . Starting from the second day, a man joins

until the 5th day. Therefore, all the men work together. Find the total time taken to complete the job. ( in days)

A. 9

B. 8

C. 10

D. 7

### Answer: A

Watch Video Solution

**15.** A job can be completed by 2 men, 3 women and 4 children in 15 days. The same work, can be completed by 9 women and 6 children in 10 days. If 1 man and 1 woman can complete it in 48 days . Find the time in which one man can complete it. ( in days)

A. 60

B.75

C. 80

D. 90

## Answer: C



**16.** Mohan can complete a job in 8 days working 9 hourse a day. Sohan can complte it in I daays wrorking 10 hours a day. In how many days can Mohan and Sohan together complete it working 8 hours a day ?

A. 6

C. 3

D. 5

#### Answer: D



**17.** Kiran and Pavanc an complete a job in 40 dasy and 50 daysm resepectively. They worked on alternative days to complete it . Find the minimum possible time in which they could completed in (in days )



## Answer: A



**18.** Pipes A,B and C are fitted to a tank .Each of A and B and can fill a tank in 9 hours. C is an emptying pipe which can empty it in 12 hours.

It is fitted at on-third the height of the tank above the in which the tank will be filled (in hours).

A. 5 B.  $5\frac{1}{2}$ C. 6.3 D.  $6\frac{1}{2}$ 

### Answer: C

View Text Solution

**19.** P can complete a job in 60 days while Q can compelete in 90 days. With the help of R, They completed in 20 days. If they earned a total of Rs. 3600, then find R is share (in Rs.)

A. 1360

B. 1600

C. 1480

D. 1540

Answer: B

Watch Video Solution

**20.** Pipes X,Y and Z are fitted to a pank. X and Y can fill a tank in 18 hours and 24 hours respectively. Z is an emptying pipe which can empty the tank in 9 hours. All the pipes are opened simultaneously when the tank is half full. The tank would be

A. filled in 72 hours

B. empitied in 72 hours

C. filled in 36 hours.

D. emptied in 36 hours

## Answer: D



**21.** P,Q and R can complete a job in 6 days, 9 days and 12 days, respectively. They worked together and completed it. They earned a total of Rs. 2600. Find P's share ( in Rs.)

A. 1350

B. 1500

C. 9000

## D. 1200

## Answer: D

Watch Video Solution