# TIME –WORK

1. A can do the given work in 10 days.

B can do the same work in 15 days.

C can do the same work in 20 days.

* 1. If they work together, in how many days, they can complete the work?
  2. If they start work together. A left after 2days of starting of work.B left 1 day before completion of work. Find the total time in which work is done?
  3. If They started work together. A left after 2 days of starting of work. B left after 1 day, leaving of 1. What is the total time in which work is done?

2 .How much time taken by C to do remaining work?

* 1. A started working alone. B joined after 2days. C joined them after 1day of B joining. Find the total time taken by them to complete the work?

1. A can do a piece of work in 80 days. He works at it for 10 days and then B alone finishes the remaining work in 42 days. The two together could complete the work in?

(A) 24days (B) 25days **(C) 30days** (D) 35days

1. 12 men complete a work in 18 days. 6 days after they had started working, 4 men join them. How many more days will all of them take to complete the remaining work?

a) 10 days b) 12 days c) 15 days d**) 9 days**

1. A complete 7/10 of a work in 30 days, then he completes the remaining work with the help of B in 8 days. Find in how much time A and B can complete the whole work.

**ANS: 80/3 DAYS**

1. 40 men can complete a work on 30 days.They start work together and **after every 10 days 5 men left the work** in how much time work will be completed?**ANSWER: 36 DAYS**
2. 33 men can do a job in 30 days. If 44 men started the work together and after every day person leave the work then what is minimum number of days required to complete the Whole work.?  **ANSWER: 44 DAYS**
3. A group of men decided to do a job in 4 days but 20 men dropped out every day,the job was completed at the end of 7th day.Find the men who are in the work initially?**ANS: 140**
4. Two workers A and B are engaged to do a work. A working alone takes 8 hours more to complete the job than if both worked together. If B worked alone, he would need 4 ½ hours more to complete the job than they both working together. What time would they take to do work together?(A) 4 hrs (B) 5hrs **(C) 6hrs** (D) 7 hrs
5. 20 men can make 200 chairs, working 8 hours per day in 25days.

40 men will take how many days in making 1000 chains, working 10 hrs per day?

1. 10 horses & 15 cows eat grass of 5 acres in a certain time.How many acres will feed 15 horses &10cows for the same time,supposing a horse eats as much as 2 cows?

**Ans:40/7 Acres**

1. If 5 engines consume 6 tones of coal when each runs 9 hours/day, how much coal will be needed for 8 engines, each running 10 hours/day, it being given that 3 engines of the former type consume as much as 4 engines of latter type?**ANS: 8 TONNES**
2. AB Company undertook to dig a canal of 120km long in 350 days and employed 45 men. After 200 days only 45km work was completed. How many more men should he employ to complete the whole work on time? **ANS: 55 MEN**
3. A contractor employed 200 men for a work. They finish 5/6 of the total work in10 days,due to rain.The work was stopped and 2/5 of the work was destroyed. After rain only 150 men come on work.In how many days the whole work will be completed.

**ANS: 136/15 DAYS**

1. Two persons A & B work together, takes 10 days to complete work.

B & C work together, takes 15 days to complete work.

C & A work together, takes 20 days to complete work.

If A, B & C work together what is the total time taken?

If A alone did then what is the total time taken?

If B alone did then what is the total time taken?

If C alone did then what is the total time taken?

1. A can do the given work in 10 days.

B can do the same work in 15 days.

C can do the same work in 20 days.

Now A, B, C works together and for the whole work they got 5,200/-.

What is A’s share? What is B’s share? What is C’s share?

1. A can do the given work in 10 days. B can do the same work in 20 days.

With the help of C they have done the work in 5 days.

They have got 20,000/- as total wages. What is the C’s share?

1. The daily wages of a worker is Rs 100/- five workers can do work in 10 days. If you pay Rs 20/- more daily, they agree to do 25% more work daily. If the proposal is accepted the total amount could be saved is? (A) 500 (B) 30 (C) 250 **(D) 200**
2. A, B, & Care employed to do piece of work for Rs 529/- A and B together are supposed to do 19/23 of the work and B and C together 8/23 of the work. What amount should A be paid? (A) Rs.315  **(B) Rs. 345** (C) Rs. 355 (D) Rs.375
3. Suhani can do a piece of work in 12 days. Suhani and Somya complete the work together and were paid Rs 54 and Rs 81 respectively. How many days must they have taken to complete the work together? a) 4 days b) 4.5 days **c) 4.8 days** d) 5 days
4. Enough food is available for 200 soldiers for 50 days. After 20 days 50 soldiers left. Now for how many days remaining food will remain?
5. There is sufficient food for certain number of soldiers for certain number of days. After 20 days 1/4th soldiers left the camp and the rest of the food will last for the same Number of days that are in starting. Find the number of days in the starting?**Ans:80days**
6. A contractor employed 30 men to do a work in 38 days. After 25days, 5more men were employed on work due to which the work is completed 1 day earlier. How many days would it been delay if 5 more men were not employed.**ANS: 1 DAY**
7. A contractor under took to finish a road in 40 days and he employed 100 men, after 35 days he employed 100 more men .The work finished on time. Then find if more men were not employed then work complete how much late. **ANS: 5 DAYS**
8. A is twice as fast as B.B is thrice as fast as C. Together they take 30 days to do a work.

What is the time taken by A alone to do work?

What is the time taken by B alone to do same work?

What is the time taken by C alone to do same work?

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

**a) 22 days** b) 25 days c) 27 days d) 30 days

1. Manju takes Twice as much time as Anju and Thrice as much as Veenu to finish a piece of work. Together they finish the work in 1 day. What is the time taken by Manju to finish the work?**a) 6 days** b) 3 days c) 2 days d) 4 days
2. In a factory, there are equal number of women and children. Women work for 6 hours a day and children for 4 hours a day. During festival time, the work load goes up by 50%. The government rule does not allow children to work for more than 6 hours a day. If they are equally efficient and the extra work is done by women, then extra hours of work put in by women every day are a) 5 **b) 3** c) 4 d) 9
3. A is thrice as good as work man as B. Together they can do a job in 15 days. In how many days will B finish the work? (A) 55 days (B) 52day (C) 54 days **(D) 60days**
4. If machine A can produce 1,000 packs in 4 hours and machine B can produce 1,000 packs in 5 hours. In how many hours Can machine A & B working together at these constant rates, produce 1,000 packs?

(A) 2hrs  **(B) more than 2 hrs** (C) less than 2hrs (D) data inadequate

1. One man works for 5 hours a day for 10 days and completes pieces of work. One boy works for 8 hours for 20 days to complete the same job. Compare their efficiency?**Ans:16/5**
2. Abu and babu together can complete a work in 6 days. In how many days they alone do the same Work. If Abu and chintu can complete the same work in5 /2 days lesser than babu and chintu.They all together complete the work in 5 days.**ANS:10DAYS, 15DAYS**
3. Abu does half as much work as babu in 3/4th time babu takes. If they work together, they can do it in 36days.Then how much time shall babu take to do it.**ANS: 60 DAYS**
4. Abu can complete 3/4th work of in 5/6th times than babu takes. If the whole work completes in 10 days by working together. Then abu alone complete the work in how many days?
5. Abu and babu can build a wall in 15 and 20 hours respectively. But if they work together they use 560 less bricks per hour and build a wall in 12hrs.Find the number of bricks in the wall. **ANS: 16800 BRICKS**
6. A can do the given work in 10 days.

B can do the same work in 15 days.

C can do the same work in 20 days.

If A, B, C, working in alternative days, (in the sequence of A, B, C) what is the total time taken by A, B, C to complete the work.

1. 3 men or 5 boys can do work in 20 days .what is the time taken by 2 men or 2 boys to do same work?
2. 5 men or 4 boys or 3 girls can do the work in 10 days. What is the time taken by 1 man and 2 boys and 2 girls to do the same work?
3. 10 men and 12 boys take 5 days to do a work.

6 men and 4 boys take 10 days to do the same work.

5 men and 3 boys together take, how much time to do the same work?

1. 24 men can complete a work in 16 days. 32 women can complete the same work in 24 days. 16 men & 16 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) 48 (B) 36 **(C) 24** (D) 16

1. 10 men can do a work in 200 days. They started it, after 20 days, 10men joined with triple capacity. What is the total time taken?
2. Abu & Babu started working together but after some days Abu left the work and the whole work will complete in 18 days. Find after how many days Abu left, if Abu & Babu complete the work in 20 & 30 days respectively? **ANSWER: 8 days**
3. A and B, B and C can do a work in 12 & 16 days. If A work for 5 days and B work for 7 days and C complete the remaining work in 13 days. Then in how many days C will complete the work alone? **ANS: 24 days**
4. (A+B) can do a work in 12 days while B+C can do the same work in days. If the work is completed by A, B & C by working 3,4 & 7 days. Find in how many days A alone would complete the whole work? **ANS: 30days**
5. One man, three women & 4 children does a work in 48 hours while 2 men & 8 children can complete the same work in 40 hours & 2 men & 3 women can complete the same work in 60 hours. Find in how much time 10 men & 5 women to complete the same work? **ANS: 18 days**
6. A, B & C can complete a work in 30 days working together. A & C together are twice efficient than B & A and B is thrice efficient than C. Find in how many days A alone can complete the work?**ANS: 72 days**
7. A & B can complete a work in half of the time taken by C. while B & C can complete the same work in one-third of time than A. If they together complete the work in 20 days, in how many days they alone can do the work?**ANS: 80,48,60 days**
8. A & B can complete a work in 40% lesser the time taken by C, while B & C can complete the same work in 60% lesser time than A, if they together can complete the whole work in 20 days ,then in how many days will they alone complete the same work?

**ANS: 160/3 days**

1. A takes as much time as B+C took to finish a job, A+B finish the same job in 10 days , C alone do the same job in 15 days. In how many days does B alone can do the same job?

**ANS: 60 days**

1. Abu and babu working together can complete a job on 5 days.If Abu work twice as efficiency as he actually did and babu work 1/3 efficently as he actually did,then the work would have been completed in 3days.Then Abu can complete the work in how many days? **ANS: 25/4 days**
2. Abu started working alone and worked for 4days,babu finished the remaining work in next 18 days working alone. Had Abu left the work after working of 6days alone then babu would take 12days to finish the remaining work. Then how many days will be taken by Abu to complete the work alone? **ANS: 10 days**
3. Pipe A can fill the tank in 10hrs.

Pipe B can fill the tank in 15hrs.

Pipe C can EMPTY the tank in 20hrs.

If all three pipes are opened together, how much time tank filled?

1. They are opened together.tap B was closed after 3hrs,tap C was closed after 2hrs of B.What is the total time taken by them to fill the tank.?

Pipe A can fill the tank in 4hrs.

Pipe B can fill the tank in 5hrs.

Pipe C can EMPTY the tank in 6hrs.

1. Tap A was opened at 6.00AM, Tap B was opened at 7.00AM, Tap C was opened at 8.00AM, At what time the tank will filled?
2. Pipe A can fill the tank in 10hrs.

Pipe B can fill the tank in 15hrs.

Tap C can empty the tank.

If they work together, tank was filled in 8hrs and emptying tap C, it empties 15L of water per min, what is the capacity of tank?

1. Pipe A can fill the tank in 10hrs.

Pipe B can fill the tank in 12hrs.

Pipe C can EMPTY the tank in 20hrs.

If all three are opened together alternatively in pattern of A, B; C.what is the total time taken to fill the tank?

1. Ratio of diameter of three pipes is given as 1:2:3.if tap with maximum diameter fill the tank in 10hrs, then what is the time taken by tap with minimum diameter to fill it?
2. Pipe A fills the cistern in half an hour and pipe B in 40 minutes, but owing to crack in the bottom of the cistern it is found that pipe A now takes 40 minutes to fill the cistern. How along will B takes mow to fill it?**(A) 60 min** (B) 40 min (C) 80 min (D) 50min
3. Two pipes can fill in 14 hours and 16 hours respectively. The pipe is opened simultaneously and it is found that due to leakage in the bottom, 32 minutes extra are taken for the cistern to be filled up. When the cistern is filling, in what time will the leak empty it? (A) 10 hrs **(B) 112hrs** (C) 116hrs (D) 120 hrs
4. A tank is filled by three pipes with uniform flow. The first two pipes operating simultaneously fill the tank in the same time during which the tank is filled by the by the third pipe alone. The second pipe fills the tank 5 hours faster than first pipe and 4 hours slower than the third pipe. The time required by the first pipe is?

(A) 30hrs  **(B) 15 hrs** (C) 10 hrs (D) 6hrs

1. A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A & B fill it together for other half?

**(A) 30min** B) 27.5min (C) 20 min (D) 15 min

1. A cisterns can be filled by two taps A and B In 12 minutes and 14 minutes respectively and can be emptied by a third 8 minutes if all the taps are turned on the same moment, what part of the taps will remain unfilled at the end of 7 minutes?**ANS: 19/24 PART**
2. X and Y are filling pipes, Z is a drain pipe. The times that X and Y would take to fill a tank are 8 hours and 12 hours respectively. All the pipes were opened at 12p.m. At 4 p.m, Z was closed. The tank was filled by 8 p.m. Find the time that Z would take to empty the full tank (in hours). a)9 **b) 6** c) 12 d) 18
3. There are two taps operating together to fill the tank. One fill the empty tank in 10 hours and Second one can empty the full tank in 12 hours. When the second tap is put on after 2 hours of the starting of the first tap, what is the total time taken to fill the empty tank (in hours). a) 40 **b) 50** c) 35 d) 18
4. 30 men can do a work, in 25 days, working at 80% of efficiency.

50 men will take how many days, working at 100% efficiency?

1. A man can take 25 days when he works at 80% efficiency. How much time will be taken by him, when he works 100 % efficiency?
2. A & B can do a piece of work in 15 days, B & C in 20 days, C & A in 25 days. In how many days, will they finish it together?

(A) 15Days (B) 14.5 Days (C) 14 Days (**D) 600/7 Days**

1. A & B working separately can finish a work in 8 and 12 days respectively. If they work for a day alternatively (beginning with A), in how many days will the work be completed?

(A) 9Days  **(B) 9.5 Days** (C) 10Days (D) 9.8 Days

1. Ram can do a piece of work in 20 days which sham can do in 30 days. They begin together but ram fall ill and leave the job 3 days before the completion of the work. Find the total number of days required to complete the work?

(A) 15 Days (B) 15.5 Days (C) 16 Days **(D) NONE**

1. 1 man & 5 women are able to complete a piece of work in 20 days. Same amount of work is completed by 4 men in 8 days. Find the number of days required by 5 men & 1 woman to complete the same work?

(A) 7.5 Days (B) 5.5 Days (C) 6 Days **(D) 6.25DAYS**

1. A, B, C, are pipes attached to certain. A and B can fill it in 20 and 30 minutes respectively. While C can be empty in 15 minutes. If A, B, C, be kept open successively for 1 minutes each, how soon will the cistern be filled?

(A) 180min (B) 170min (**C) 169.5 min** (D) 100min

1. If 3 men & 4 women can reap a field in 43 days, how long will 7 men & 5 women take to reap it? **(A) 12days** (B) 15 days (C) 10days (D) 8 days
2. 12 men & 16 boys can do a piece of work in 5 days, and 13 men and 24 boys can do it in 4 days, how long will 7 men and 10 boys take to do it?

**(A) 25/3 days**(B) 30/7 days (C) 31/3 days (D) 17/2 days

1. A certain number of men can do a work in 60 days, if there were 8 men more, it could be finished in 10 days less. How many men are there?

(A) 30 (B) 50 **(C) 40** (D) 42

1. Two pipes, P and Q can fill a cistern in 12 & 15 minutes rpc, both are opened together, but at the end of 3 minutes the first is turned off. How much longer will the cistern take to fill? **(A) 8.25 min** (B) 10 min (C) 9 min (D) 8.5min
2. There is a leak in bottom of certain. When the cistern is in thorough repair, it would be fill in 3 ½ hours. It now takes half an hour longer. If the cisterns ill fill, how long would be leaking itself empty?

**(A) 28hrs** (B) 35hrs (C) 21 hrs (D) 29hrs

1. Two pipes can separately fill cisterns in 8 and 12 hours, and an escape can empty it in 6 hours. The 3 pipes are opened at 1pm, 2pm, & 3pm respectively. When will The Cistern full? **(A) 7AM next day** (B) 9AM next day (C) 11pm same day (D) none
2. If 8 men, working 9hrs/day can build a wall 18 meters long, 2 meters wide and 12 meters high in 10 days, how many men will be required to build a wall 32 meters long, 3 meters wide and 9 meters high by working 6 hours a day in 8 days?

**(A) 30 men**  (B) 24 men (C) 21 men (D) 22 men

1. If 60 guns firing 5 rounds in 6 minute. Kill 350 men in 1 ¼ hours, how many guns firing 7 rounds in 9 minute will kill 980 men in 25 minute at the same rate?
   * + 1. 540guns (B) 580 guns (C) 270 guns **(D) 240guns**
2. A contractor under took to do a certain work in 80 days and employed 72 men to do it, after 20 days he found that 1 /3 rd of the work has been finished. How many men should he dismiss in order that work is finished on the date agreed up on?

(A) 28men (B) 36 men (C) 35 men **(D) 24 men**

1. A builder engages 25 men, working 8 hours a day to build an apartment in 4 weeks. At the end of 12 days he finds that only ¼ of the work is done. How many more men should he engage so that all the men working 10hours a day may complete the apartment in the stipulated time?

(A) 15men **(B) 20men** (C) 25men (D) 40 men

1. Atul & Manish can complete a job in 16 days. Atul alone can do it in 24 days. How long will Manish alone take to finish the whole work?

(A) 16 days **(B) 48days** (C) 24 days (D) 32days

1. Satish can do a job in 10 days ashish in 20 days. They work together, but 4 days before the job is to be finished, ashish leaves for the UK. Find the total time needed to finish the work? (A) 6days (B) 7 days **(C) 8 days** (D) 9 days
2. Bhavika alone would take 8 hours more to complete the job than when bhavika and Rita would together. If Rita worked alone, she would take 4 ½ more to complete the job than when bhavika and Rita worked together. What time would they take if both bhavika and Rita worked together?

(A) 3 days (B) 4 days (C) 5days  **(D) 6days**

1. 10 men can finish a piece of work in 10 days, where as it takes 12 women to finish it in 10 days. If 15 men and 6 women undertake the work, how many days will they take to complete it?

(A) 4days **(B) 5 days** (C) 4 1/2 days (D) 6 days

1. If 3 men and 5 women can do a piece of work in 8 days and 2 men and 7 boys can do the same work in 12 days? Find the number of boys the work done by whom can equate the work done by 10 women?

(A) 19 Boys **(B) 21Boys** (C) 23Boys (D) 15Boys

1. A does half as much work as B in 3/4 of the time of together they take 18 days to complete the work, how much time shall B take to do it?

(A) 30days (B) 35 days (C) 40days **(D) 45 days**

1. X can do a piece of work in 12 days and Y in 10 days, but with the help of Z they can finish the work in 4 days. Z alone can do the work in how many days?

(A) 10days (B) 12days **(C) 15days** (D) 19days

1. X can do as much work in 3 days as Z in 5 days. Y Can do as much work in 3 days as Z can do in 2 days. What time would Y required to do a work if X takes 24 days to finish it?

(A) 50 days (B) 60days (C) 10 days **(D) 80 days**

1. A booster pump can be used for filling as well as for emptying the tank. the capacity of the tank is 2400m3,the emptying capacity of the tank is 10m3 per minute higher than its filling capacity and the pump needs & minutes lesser to empty the tank than it needs to fill it. What is the filling capacity of the pump?

(**A) 50m3/min** (B) 60m3/min (C) 72m3/min (D) 100m3/min

1. Two workers A and B working together completed a job in 5 days, if A worked twice as efficiently as he actually did, and B worked 1/3 efficiently as he actually did, the work would be completed in 3 days. A alone could complete the work in?

(A) 5 1/4 days **(B) 6 1/4days**  (C) 7 1/2days (D) 8 1/2days

1. A machine P can print one lakh books in 8 hours; machine Q can print the same number of books in 10 hours while machine R can print them in 12 hours. All the machines are started at 9 am, while machine P is closed at 11 am and the remaining two machines complete the work. Approximately at what time will the work be finished?

(A) 11:30 am (B) 12.30 pm **(C) 1pm** (D) 12noon

1. If 12 men & 16 boys can do a piece of work in 5 days, 13 men and 24 boys can do it in 4 days, then the ratio of the daily work done by a men to that a boy is?

**(A) 2:1** (B) 3:1 (C) 3:2 (D) 5:4

1. A group of USA planes can completely destroyed Baghdad in 7days; however 12 planes develop technical faults. The remaining now can do the job in 10 days. Find the original group strength?**ANS:40**
2. If 6 BSF (or) 10 CRPF companies can demolish a terrorist out fit in Kashmir in 2 days. Find how long will 4 BSF and 9 CRPF companies take to do same?**ANS: 60/47 DAYS**
3. 5 men & 6 boys finish a piece of work in 4 days, 4 men and 3 boys in 6 days. In how many days would 3 men and 6 boys finish the same work? **ANS: 5 1/7 DAYS**
4. A, B, & C can do a piece of work in 12, 15 & 20 days respectively. They work together, but B and C are called off 2 and 1 day respectively, before the completion of work. In what time was the work finished? **ANS: 71/12 DAYS**
5. A can do a piece of work in 15 days and B in 20 days. They finished the work with the assistance of C in 5 days and got 45/- as their wages. Find the share of each?

**ANS: 15, 11.25, 18.75**

1. A vessel can be filled by one pipe A in 10 minutes, by a second pipe B in 15 minutes. It can be emptied by a waste pipe C in 9 minutes. In what time will the vessel be filled if all the three were turned on at once? **ANS: 18 MIN**
2. Three pipes A, B, & C can fill a cistern in 15, 20, & 30 minutes respectively. They were all turned on at the same times. After 5 minutes the first two pipes were turned off. In what time will the cisterns be filled? **ANS:12.5 MIN**
3. Two pipes A & B can fill cisterns in 6 and 8minutes respectively. If they are turned on alternatively for one minute each. How long will it take the cisterns fill?**ANS: 6 ¾ MIN**
4. 10 men can clean 2 acres of lawn in 12 days, how many men can clean 3 acres of lawn in 6 days? **ANS: 30**
5. If 8 boys and 12 women can do a piece of work in 25 days. In how many days can the work be done by 6 boys and 11 women working together?

a) 15 days b) 10 days c) 12 days **d) Can’t be determined**

1. If 12 men and 16 boys can do a piece of work in 5 days and 13 men and 24 boys can do it in 4 days, Compare the daily work done by a man with that done by a boy?

a) 1 : 2 b) 1 : 3 **c) 2 : 1** d) 3 : 1

1. A, B and C can complete a work in 10, 20 and 30 days respectively, when they work individually. All the three started simultaneously. After 3 days A left. After two more days B left and C completed the remaining work alone. If the total work is for Rs 6000, find the amount received by the C (in Rs).

a) 1500 b) 1800 c) 2500 **d) 2700**

1. X can complete a job in 8 days. Y can complete it in 12 days. They worked together for 4 days. The remaining part of job was completed by Z in 3 days. The wage paid to the three to complete job was Rs 8400. Find Z’s share (in Rs).

a) 560 b) 2800 **c) 1400** d) 980

1. P, Q and R can complete a job in 20 days, 30 days and 40 days respectively. All of them started it. After 6 days, P left, Q and R completed the remaining part of the job. The total wage paid to them to complete the job was Rs 1000. Find Q’s share (in Rs).

a) 360 b) 500 c) 450 **d) 400**

1. Ajay and Vijay can do a piece of work in 12 days. Vijay and Manoj together do it in 15 days. If Ajay is twice as good a workman as Manoj, in how much time will Vijay alone can do the work?

a) 15 days b) 20 days c) 25 days d) 35 days

1. 12 men complete a work in 18 days. 6 days after they had started working, 4 men join them. How many more days will all of them take to complete the remaining work?

a) 10 days b) 12 days c) 15 days d**) 9 days**

1. A cistern is normally filled in 6 hours but takes 4 hours longer to fill because of a leak in its bottom. If the cistern is full, the leak will empty it in how much time?

**a) 15 hrs** b) 16 hrs c) 20 hrs d) None

1. A contractor undertook to finish a certain work in 124 days and employed 120 men. After 64 days, he found that he had already done of the work. How many men can be discharged now, so that the work may finish in time? a) 40 b) 50 c) 48 **d) 56**
2. A can build up a structure in 8 days and B can break it in 3 days. A has worked for 4 days and then B joined to work with A for another 2 days only. In how many days will A alone build up the remaining part of the structure?

a) 10 days b) 9 days c) 12 days d) 13 days e**) None**

1. A & B can complete a work in 10 and 12 days respectively. A & B start working together and after 3 days A left the work, find in how many days the work will be completed? **ANS: 8.4 days**
2. Three men A, B & C completes a work in 10, 12 & 15 days respectively. They started working together, after 2 days of starting of the work, A left & 2 days after leaving of A, C also left. Then find in how many days the whole work will be completed?

**ANS: 6.4 days**

1. Three men A, B & C completes a work in 10, 12 &15 days respectively. If A left the work 2 days before the completion of the work & B left the work 3 days before the completion of the work, find that in how many days the work will complete?

**ANS:5.8 days**

1. If A, B & C are 3 persons doing a work? A+B, B+C, & C+A can complete a work in 10, 12 & 20 days respectively. In how much time they alone can do the work & if they do together, then how much time they take to complete the work?**ANS: 60/7 days**
2. A does half as much as work done by B. C does half as much as done by A & B together in same time. If C alone can complete the work in 40 days. Then in how many days they all together can complete the work?**ANS: 40/3 days**
3. A, B, C can complete a work on 10,12,15 days respectively.If they start work together till the whole work complete.find the share of wages of A,B,C out of the total wages of 75 rupees.**ANS: 200**
4. A& B complete a work in 12 and15 days.They started the work alternatively for 1 day each &A started the work first.In how much time 60% of work will be completed.**ANS: 8 days**
5. Three typists working together 8hrs per day can type 1800 pages in 20 days. The number of pages typed by A in 4 hours equal to the number of pages typed by C in one hour. How many pages typed by C in 1hr.If in a day B types as many pages more than A as C types as many pages more than B.**ANS: 6 pages**
6. Abu and babu can complete a work on 30 days working together. They start work together and after 23 days Babu left the work and whole work complete on 33 days. Find the time in which Abu alone can complete the work.**ANS:300/7 days**
7. Abu and Babu can complete a work in 24 days. In how many days Abu alone can do the total work if they start working together after 20 days Abu left the work,work is completed in 26 days.**ANS: 72 days**
8. Abu and Babu Takes 10days to complete a working together. If Abu works for 2.5 days and Babu for 8.5 days, they finish half work. In how much time Abu alone complete the work. **ANS:120/7 days**
9. Abu and Babu can complete a work in 12 days.Abu alone works for 8 days and Babu completes the work in 20 days by doing alone.In how much time Babu alone takes to complete the work**ANS: 36 days**
10. Abu alone would take 27hours more to complete a work than time taken byAbu and Babu together.Babu takes 3hrs more to complete a work alone than abu and babu together.In how many days abu alone can do it.**ANS: 12 hrs**
11. Abu can complete a work in 5 more days than Babu while Abu does the same work in 9 more days than chintu .If Abu and Babu can complete the whole work in same time in which chintu alone does the whole work. In how many days Abu could complete the same work**ANS: 15 days**
12. 3 men A,B,C working together can do a job 6hrs less time than A alone did 1hr les time than B alone and half the time needed by C.In how many days will A finish the work alone?
13. 3 men and 4 women can complete a work in 16 days while 4 men and 3 women can complete the same work in 12 days. Then find 7men and 7 women can complete the same work in how many days. **ANS: 48/7 DAYS**
14. Abu ,Babu,chintu have to supply an order of 100 pens.Abu,babu,chintu make a pen in 2,3,4 hrs respectively.In how many days they will complete the work if each one make a complete pen himself without the help of other.**ANS: 100 PENS**
15. 40 men can complete a work on 30 days.They start work together and after every 10 days 5 men left the work in how much time work will be completed.**ANS: 36 DAYS**
16. 60 men can complete a work in 40 days.They start work together but after every 10 days, 5men leave the work.In how much time the work will be completed.

**ANS:47.5 DAYS**

1. 33 men can do a job in 30 days.If 44 men started the work together and after every day 1 person leave the work then what is minimum number of days required to complete the whole work.**ANS: 45 DAYS**
2. A group of men decided to do a job in 4 days but 20 men dropped out every day,the job was completed at the end of 7th day.Find the men who are in the work initially?**ANS: 140**
3. Abu and babu can complete a work in 6 days.In how many days they alone do the same work. if Abu and chintu can complete the same work in5 /2 days lesser than babu and chintu.They together complete the work in 5 days.**ANS: 15DAYS,30DAYS**
4. 4 men can do a piece of work in 6 days while 3 women can complete the same work in 16 days.In how many days 1men and 2 women can complete the work.?

**ANS:12 DAYS**

1. 2 men can complete a work in 3 days,while 3 women can complete the same work in 4days and 4 children can complete the same work in 6 days. In how many days 1men+2children can complete the same work.**ANS: 4 DAYS**
2. 6 men and 8 women complete a work in 10 days while 26 men and 48 women in 2 days.In how many days 7men and 3 women will complete the work **ANS: 200/17 DAYS**
3. 12men+18women can complete a work on 10 days while 3men+18women can complete the same work in 12 days. In how many days 2men+3women will complete the work?**ANS: 60 DAYS**
4. 2 men can complete a piece of work in 3 days while 3 women can complete the same work in 4 days and 4 children can co,plete the same work in 6 days.Then find in how many days 1men+1woman+2children can complete the same work.**ANS: 3 DAYS**
5. There is sufficient food for 400 soldiers for 31 days.After 28 days 280 soldiers left the camp.How many days will the rest of the food lasts for the rest of soldiers.

**ANS: 10 DAYS**

1. There is sufficient food for 1600 soldiers for 50days and each person eat 450 gms food everyday. After 40 days, 400 soldiers left the camp. Now for how many days will the rest of the food lasted for the rest of the soldiers if each soldiers ate 500gms food every day. **ANS: 12 DAYS**
2. There is sufficient food for certain number of soldiers for certain number of days. After 20 days 1/4th soldiers left the camp and the rest of the food will l last for the same number of days that are in starting. Find the number of days in the starting?

**ANS: 80 DAYS**

1. 5 women can prepare 10 toys in 6 days working 6 hrs per day.IN HOW MANY DAYS CAN 12 WOMEN PREPARE 16 TOYS WORKING 8hrs per day.**ANS: 3 DAYS**
2. 8 women working 9hrs per day complete a work in 20 days. In how many days can 7 women working 10hrs a day complete the same work?**ANS: 144/7 DAYS**
3. A custom cistern can be filled by two pipes A and B in 4hrs and 6hrs respectively. When full the tank can be emptied by a third pipe C in 0.8hours.if all taps be turned on at the time, the cistern will be full in-------hrs. **ANS: 24/7 hrs**
4. A tank is filled by pipe A takes to fill fully in 32min and pipe B in 36 mins. When full, it can emptied by a pipe C in 20min.if all the three pipes are opened simultaneously, half of the tank will be filled in ------- min? **ANS:720/13 min**
5. If two pipes functions simultaneously. Reservoir will be filled in 6hrs .one pipe fills the reservoir 5hrs faster than the other. How many hours does the faster pipe takes to fill the reservoir **ANS:10**
6. The three pipes A, B and C can fill a cistern in 6 hours. After working at it together for 2 hours, C is closed and A&B can fill it in 7hrs. The time taken by C alone to fill the cistern ------- hrs?**ANS: 14hrs**
7. Pipe A can fill a tank in 36mins and pipe B can fill it in 45mins. If both pipes are opened to fill an empty tank how many minutes will it be full? **ANS: 20min**
8. Tap A can fill the empty tank in 12hrs but due to a leak in the bottom, it is filled in 15hrs. If the tank is full and then tap A is closed then in how many hours leak can empty it? **ANS: 60hrs**
9. Pipe A&B can fill a cistern in 10hrs & 15hrs respectively. When a third pipe C which works as an outlet pipe also open, when the cistern can be filled in 18hrs. The outlet pipe can empty a full cistern in **ANS: 9hrs**
10. A cistern has a leak which would empty it in 6hours. A tap is turned on which fills the cistern at 10litres per hour and then it is emptied in 16hours. What is the capacity of the cistern a) 100L B. 166.6L C. 60.66L **D. None**
11. Tap A fills a tank in 10hrs and B can fill in 15hrs. Both are opened simultaneously, sometimes later tap B was closed. Then it takes 8hrs to fill up the whole. After how many hours B was closed? A) 2 **B. 3** C. 4 D. 5
12. Tap A can fill a tank in 20hrs, B in 25hrs but C can empty a full tank in 30hrs. Starting with A followed by B and C each tap opens alternatively one hour period till the tank Gets filled up completely. In how many hours the tank will be filled up completely? A. **51 11/16** B. 52 2/3 C. 24 4/11 D. None
13. If one pipe A can fill a tank in 20min, then 5 pipes, each of 20% efficiency of A can fill the tank in? a) 80min B. 100min C**. 20min** D. 25min
14. A cistern has a leak which would empty it in 8 hours. A tap is turned on which admits 6L a minute into the cistern and it is now emptied in 12hrs. How many liters does the cistern can hold? **ANS:8640 liters**
15. Two taps can separately fill a cistern in 10minutes and 15mins respectively. And when the waste pipe is open, they together fill it in 18mins. The waste pipe can empty the full cistern in min?**ANS: 9min**
16. A cistern can be filled by two pipes A and B in 4hrs and 6hrs respectively. When the tank can be emptied by a third pipe in 8hours. If all the taps be turned on at the same time, the cistern will be full in **ANSWER: 24/7 hrs**
17. A cistern has two taps which fill it in 12mins 15mins respectively. There is also a waste pipe to the cistern. When all the pipes are opened to empty cistern, if full in 20min. How long will waste pipe take to empty a full cistern? **ANSWER: 10min**
18. A tank can be filled by one tap in 20min and by another in 25min. Both the taps are kept opens for 5min and then the second is to turn off. In how many minutes more will the tap tanks be completely filled? **ANSWER: 11 more minutes**
19. A cistern is normally filled in 8hrs but takes two hours longer to fill because of leak in its bottom. If the cistern is full, leak will empty it in hrs?**ANS: 40hrs**
20. Two pipes X and Y can fill a cistern in 24min and 32mins respectively. If both the pipes opened together, then after how much time should Y be closed so that tank is full in 18 minutes? **ANS: after 8 min**
21. A leak in the bottom of a tank can empty the full tank in 6hrs. And inlet pipe fills water at the rate of 4 litres per minute. When the tank is fill, the inlet is opened and due to the leak the tank is emptied in 8hrs. The capacity of the tank liters.**ANS: 5760 liters**
22. A can do 1/3RD of a work in B 5days and B can do 2/5th of the work in 10 days . In how many days both A and B together can do the work?
23. A is thrice as fast as B and is therefore able to finish a work in 60days less than B. find the time in Which they can do it working together?