1.A,B & C can do a piece of work in 30, 36 & 45 days. If A is assisted by B and C on alternate days i.e AB then AC then the whole work will complete in how many days?

**a.17.1 days** b. 18.2 days c. 17.5 days d. 18.75 days

2. A,B & C can do a piece of work in 30, 36 & 45 days. If A,B and C starts work together. After 2 days A left the work & next after 2 days B also left. Then find in how many days the whole work will finish.

**(a) 37**  (b) 35 (c) 30 (d) 40

3. A,B & C can do a piece of work in 30, 36 & 45 days. A, B, C starts work together. A & B left the work 2 days before the completion of the work. Then whole work will finish in how many days.

**(a) 13.5** (b) 15.5 (c) 14.5 (d) 10

4. A,B & C can do a piece of work in 30, 36 & 45 days. If A left the work 2 days before the completion of the work & B left the work 3 days before the completion. Work will finish in how many days.

**(a) 13.8** (b) 15 (c) 20 (d) 10

5. B would have taken 8 hours more than what A would have taken to complete a task if each of them worked alone. Working together they can complete the task in 7.5 hours. How many hours would B take to do 50% of the task?

(a) 30 (b) 15 (c) 20 **(d) 10**

6. B would have taken 8 hours more than what A would have taken to complete a task if each of them worked alone. Working together they can complete the task in 13(5/7) hours. How many hours would A take to do 60% of the task?

**(a) 14.4** (b) 12.4 (c) 15.6 (d) 16.6

7. Working alone A can do the task in 30 hours and B can do it in 60 hours. Find C’s share (in Rs) if A, B and C get paid Rs.3900 for completing a task in 18 hours on which they worked together.

**a)390** (b) 780 (c) 1170 (d) 1560

8. A is thrice as good a workman as B. C alone takes 56 days to paint a house. All three A, B and C working together take 7 days to paint the house. It will take how many days for B alone to paint 37.5% of the house?

**a)12** (b) 14 (c) 28 (d) 21

9. A can complete 50% of a job in 8 days and B can complete 75% of the job in 15 days if they worked alone. If they worked together how much of the job (in %) can they complete in 8 days?

(a) 80 (b) 75 **(c) 90** (d) 100

10. A can do 3/𝟓 of a work in 15 days and B can do 2/7 of the same work in 4 days. They work together for 5 days. C alone completes the remaining work in 5 days. B and C together can complete 28% of the same work in:

1. 2.5 (b) 2.25 (c) 2 **(d) 1.75**

11. A can do 𝟐/𝟓 of a work in 8 days and B can do 𝟐/𝟑 of the same work in 12 days. A and B worked together for 8 days. C alone completed the remaining work in 4 days. A and C, working together, will complete the 80% work in:

(a) 10 (b) 8 (c) 12 **(d) 9**

12. 3 men, 2 women and 4 boys together can complete a work in 10 days. A woman does 71.42% of the work a man does, and a boy does 14.28 % of the work a man does. 5 women and 3 boys will be able to complete this work in how many days?

(a) 10.5 (b) 12 (c) 11 **(d) 12.5**

13. 44 persons working 8 hours a day can do 3 units of work in 18 days. How many persons are required to do 5 units of that work in 11 days, if they work for 6 hours a day?

(a) 145 (b) 140 **(c) 160** (d) 150

14. 4 men or 5 women can complete a job in 60 days. 18 men and 15 women will complete the same job in how many days?

(a) 9 (b) 12 (c) 10 **(d) 8**

15. Salman and Vicky together can complete a work in 50% more time than Amir, Salman, and Vicky. If all have worked together till the completion of the work. Salman received Rs. 150 crores out of total earning of Rs. 630 crores, then Vicky got how many rupees more than Amir?

**a. 60** **crores** b. 40 crores c. 55 crores d. 45 crores

16. There is sufficient food for 1400 soldiers for 51 days and each person eat 990 gm food every day, after 30 days, 300 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 980 gm food every day.

**a)27 days**  b. 20 days c. 21 days d. 18 days

17. Shashi undertook to finish a road in 60 days & he employ 100 men. After 45 days he employed 80 more men, the work finished on time. Then find if more men were not employed then work will complete in how much late.

**a. 12** b. 16 c. 10 d. 14

18. Virat employed 100 men for a work. They finish 7/8 of the total work in 21 days, due to rain the work was stopped for 2 days & 2/7 of the work was destroyed. After rain, only 90 men come to work. In how many days the whole work will be completed.

**a. 33**  b. 31 c. 30 d. 35

19. A+B, B+C do a work in 18 and 24 days. If A work for 6 days and B work for 10 days and C complete the remaining work in 28 days. Then find A would complete the work in how many days.

**a. 28.8 days** b. 27.2 days c. 29.5 days d. 27.5 days

20. A+B, B+C do a work in 30 and 48 days. If A work for 20 days and B work for 30 days and C complete the remaining work in 25 days. Then find A would complete the work in how many days.

**a. 48 days** b. 44 days c. 42 days d. 40 days

21. Two inlet pipes J and K can fill a swimming pool in 27 and 18 minutes, respectively, whereas pipe L can empty the full tank in 36 minutes. J and K were opened together for 9 minutes and then closed, and L was opened. The swimming pool was emptied by L alone in how many minutes:

**(a) 30** (b) 40 (c) 35 (d) 45

22. Two taps J and K together can fill an empty tank in 6(𝟐/𝟑) minutes. If A takes 3 minutes less than B to fill the tank, then the time in which J alone would fill one fourth part of the tank is:

(a) 4.5 (b) 6 **(c) 3** (d) 5

23. Two pipes A and B can fill a tank in 27 and 36 minutes respectively. If both the pipes are opened together, then at what time should pipe B be closed so that the tank is completely filled in 18 minutes.

(a) 9 (b) 10 (c) 8 **(d) 12**

24. Two pipes can fill a cistern separately in 77 and 88 minutes respectively and waste pipe can drain off 1220 gallons per minute. If all the three pipes are open, the cistern fills in 56 minutes. What is capacity of the cistern?

**a) 23100 gallons** b) 25200 gallons c) 22300 gallons d) 21400 gallons

25. Two pumps which can fill a tank in 18 hours and 24 hours while working alone. Gaurav opened both the pumps for 15.5 hours and realized the 146 litres of water was spoiled over the ground due to overflow in the tank. What is the total capacity of the tank?

a) 265 litres b) 256 litres c) 300 litres **d) 288 litres**

26. A tank is fitted with pipes, some filling it and the rest draining it. All filling pipes fill at the same rate, and all draining pipes drain at the same rate. The empty tank gets completely filled in 6 hrs when 6 filling pipes are on, and the full tank gets completely empty in 5 hrs when 9 outlet pipes are on. In how many hours will the empty tank get completely filled when one draining and two filling pipes are on?

a. **30 hours** b. 24 hours c. 48 hours d. 36 hours

27. A tank is fitted with pipes, some filling it and the rest draining it. All filling pipes fill at the same rate, and all draining pipes drain at the same rate. The empty tank gets completely filled in 8 hrs when 12 filling pipes are on, and the full tank gets completely empty in 6 hrs when 8 outlet pipes are on. In how many hours will the empty tank get completely filled when two draining and 5 filling pipes are on?

a. **96 hours** b. 112 hours c. 48 hours d. 72 hours

28. A tap can fill a tub in 15 hours. After opening the tap for 10 hours it was found that a small outlet at the bottom of the tub was open and water was leaking through it. It was then immediately closed. It took 9 hours to fill the tub after closing the outlet. What time will be taken by the outlet to empty the full tub of water?

a.35 hours **b.37.5 hours** c. 32 hours d. 40 hours

29. Two taps A and B can fill a tank in 54 minutes and 72 minutes respectively. If initially only pipe B was kept open for 𝟐/𝟓 th of the total time and both pipes A and B were kept open for the rest of the time, then how many minutes would both pipes take to fill the tank?

**A 60 minutes** b. 40 minutes c. 50 minutes d. 30 minutes

30. A work was completed by 4 persons of equal ability, first one doing m hours for m days, second one is doing n hours for n days, third one is doing 16 hours for 16 days and fourth one is doing 10 hours for 10 days. The work could have been completed by the third person alone in 29 days with his respective working hours. If all of them do the work together with their respective working hours then they can complete it in how many hours.(It may happen that one person is just watching not doing any work)

**A 16.6**  b. 15.5 c. 14 d. 16