Job Skills PROGRAM

Time & Work (Pipes & Cisterns)-2

1. A group of men do a piece of work in 10 days. But five of them are absent and so the rest do the work in 12 days. Find the original number of labourers.

   (a) 20 (b) 21 (c) 30 (d) 31

2. If 5 men or 6 women take 15 days to complete a piece of work, how long will 15 men and 12 women take?

   (a) 6 (b) 3 (c) 4 (d) 2

3. 18 workers can lay a road in 24 days working 12 hours a day. In how many days can 54 workers lay a road which has one-third length more than the earlier one, working 8 hours a day?

   (a) 12 (b) 32 (c) 24 (d) 16

4. To do a piece of work, B takes 3 times as long as A and C together. If the three together can complete the work in 10 days, how long would B take by himself?

   (a) 28 days (b) 30 days (c) 24 days (d) 40 days

5. A and B together can finish a work in 30 days. They worked for 20 days and then B left. The remaining work was done by A alone in 20 more days. A alone can complete the work in

   (a) 48 days (b) 50 days (c) 54 days (d) 60 days

6. A can do a piece of work in 45 days & B in 40 days respectively. They worked together for some days & then A left the work & B completed the remaining work in 23 more days. After how many days, did A leave the work?

   (a) 9 days (b) 10 days (c)11 days (d) 12 days

7. A& B can do a piece of work in 20 days, B & C in 30 days and C & A in 40 days respectively. If they work together, the work will be completed in how many days?

   (a) $17\ ^{6}/_{13}$ days (b) $18\ ^{6}/_{13}$ days (c) 18 ½ days (d) 19 days

8. In the above question, if they work separately, the work will be completed in how many days?

   (a) 48, 34 2/7, 240 days (b) 36,48,72 days (c) 48,72,120 days (d) 72,120,240 days

9. A&B can do a piece of work in 12 days, B&C in 16 days respectively. After A has been working for 5 days and B for 7 days, C takes up and finishes it alone in 13 days. In how many days they can do it separately?

   (a) 12,16,18 days (b) 16,48 & 24 days (c) 16, 18& 24 days (d) 24,36 & 48 days

10. A is thrice as fast as B, and is therefore able to do a work in 60 days less than B. If they work together, the work will be completed in how many days?

    (a) 20 days (b) 22.5 days (c) 24 days (d) 25 days

11. A,B and C can do a job in 8,16 and 24 days respectively. They all begin together, A continues to work till it is finished, C leaving off 2 days and B one day before its completion. In what time is the job finished?

    (a) 5 days (b) 6 days (c)8 days (d) 9 days

12. Two women, A and B can mow a field in 8 and 12 hours respectively. They work for an hour alternately, A beginning at 9 AM. When will the work be completed?

    (a) 6:30 PM (b) 6:45 PM (c) 7:00 PM (d) 6:36PM

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13. A can complete a work in 26 days and B in 28 days. If they do the work on alternate days and A started the work in how many days they can complete the work?
(a) $26\ ^{13}/_{14}$ days (b) 27 days (c) 14 days (d) None

14. In the above question if B started the work in how many days they can complete the work?
(a) $26\ ^{13}/_{14}$ days (b) 27 days (c) 14 days (d) None

15. Twelve men and 5 boys can do a piece of work in 2 days. 4 men and 3 boys can do it in 5 days. How many days will 1 man and 1 boy take to do the same work?
(a) $15\ ^{5}/_{9}$days (b) $14\ ^{4}/_{9}$ days (c) $17\ ^{7}/_{9}$ days (d) $18\ ^{8}/_{9}$ days

16. 97 men can do 97 jobs in 97 days. Then 1 man can do 1 job in how many days?
(a) 1 day (b) 97 days (c) 100 days (d) None

17. 16 men can complete a work in eighteen days. Twenty women can complete the same work in 18 days. Four men and ten women started working. After 9 days ten more women joined them. How many days will they now take to complete the remaining work?
(a) 9 days (b) 12 days (c) 8 days (d) None of these

18. Pipe A can fill a tank in 20 hours while pipe B alone can fill it in 30 hours. Pipe C can empty it in 40 hours. If all the pipes are opened together, how much time will be needed to make the tank full?
(a) 34 hrs (b) $17\ ^{1}/_{7}$hrs (c) 12½ hrs (d) 10 hrs

19. There is a leak at the bottom of a cistern. When the cistern is thoroughly repaired, it would be filled in 3½ hrs. It now takes half an hour longer. If the cistern is full, how long would the leak take to empty the cistern?
(a) 28 hrs (b) 35 hrs (c) 37 hrs (d) Data insufficient

20. Two pipes P and Q would fill a cistern in 24 hours and 32 hours. If both the pipes are opened together, find when the first pipe must be turned off so that the cistern may be just filled in 16 hours.
(a) 24 hrs (b) 18 hrs (c) 12 hrs (d) 10 hrs

21. If two pipes function simultaneously, the reservoir is filled in 12 hrs. One pipe fills the reservoir 10 hours faster than the other. How many hours does the faster take to fill the reservoir?
(a) 10 hrs (b) 20 hrs (c) 23 hrs (d) 24 hrs

22. A tank has a leak which can empty it in 8 hours. A tap is turned on which fills water at the rate of 6 litres/minute and it is now emptied in 12 hrs. How many litres does the tank hold?
(a) 8460 *l* (b) 8640 *l* (c) 8064 *l* (d) 8046 *l*

23. Pipe A is 60% as efficient as pipe B. If pipe B can fill a cistern in 10 hours, then pipe A can fill in
(a) 10 hrs (b) 6 hrs (c) $16\ ^{2}/_{3}$ hrs (d) 16 hrs

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