TIME AND WORK

1. Thirty men take 20 days to complete a job working 9 hours a day. How many hours a day should 40 men work in 20 days to complete the job?
(a) 6 hours/day (b) 6.5 hours/day (c) 7.5 hours/day (d) 6.75 hours/day

2. Susan can type 10 pages in 5 minutes. Mary can type 5 pages in 10 minutes. Working together, how many pages can they type in 30 minutes?
(a) 35 (b) 20 (c) 25 (d) 75

3. Aman's basic pay for a 40 hours' week is Rs200. Overtime is paid at 25% above the basic rate, in a certain week, he worked overtime and his total pay was Rs300. He therefore, worked for a total of (in hours):
(a) 52 (b) 56 (c) 58 (d) 62

4. 15 men take 21 days of8 hrs, each to do a piece ofwork. How many days of6 hrs, each would it take for 21 women if 3 women do as much work as 2 men?
(a) 30 (b) 20 (c) 19 (d) 29

5. 10 men and 15 women together can complete a work in 6 days. It takes 100 days for one man alone to complete the same work. How many days will be required for one woman alone to complete the same work? (a) 215 days (b) 225 days (c) 235 days (d) 240 days

6. A contractor has to finish a work in 150 days. He employed 75 men each working 8 hours daily. After 90 days, only 2/7 of the work was completed. Increasing the number of men by..... and each one is working now for 10 hours daily, the work can be completed in time.
(a) 175 (b) 125 (c) 150 (d) 100

7. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?
(a) Rs375 (b) Rs400 (c) Rs600 (d) Rs450

8. P is thrice as good a workman as Q and therefore is able to finish a job in 48 days less than Q. Ifthey work together, they can do it in:
(a) 18 days (c) 30 days (b) 24 days (d) 12 days

9. A garrison of 3,300 men has provisions for 32 days, when given at a rate of 850 grams per head. At the end of 7 days, a reinforcement arrives and it was found that now the provisions will last 8 days less, when given at the rate of 825 grams per head. How many more men can it feed?
(a) 1,500 (b) 1,850 (c) 1,700 (d) 1,600

10. A works thrice as much as B. If A takes 60 days less than B to do a work, then find the number of days both of them working together would take to complete the work.
(a) 45 days (b) 22.5 days (c) 25 days (d) 20 days

11. If 10 programmers, type 10 lines within 10 minutes; then 60 lines can be typed within 60 minutes by how many programmers?
(a) 10 (b) 20 (c) 1 (d) 60

12. Worker W produces n units in 5 hours. Workers V and W, work independently but at the same time, produce n units in 2 hours. How long would it take V alone to produce n units?
(a) 1 hr 26 min (c) 2 hr 30 min (b) 1 hr 53 min (d) 3 hr 33 min

13. If 10 cats can kill 10 rats in 10 minutes, how long will it take 100 cats to kill 100 rats? (a) 1 minute (b) 10 minutes (c) 100 minutes (d) 10000 minutes

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14. A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is:
(a) 8/15 (b) 7/15 (c) 2/3 (d) 31/60

15. If 20 men take 15 days to complete a job, in how many days can 25 men finish that work? (a) 9 (b) 10 (c) 16 (d) 12

16. J can dig a well in 16 days. P can dig a well in 24 days. J, P and H dig in 8 days. H alone can dig the well in how many days?
(a) 32 (b) 48 (c) 96 (d) 28

17. A can do a piece of work in 20 days and B in 30 days. They work together for 7 days then both leave the work. Then C alone finishes the remaining work in 10 days. How many days will C need to finish the full work? (a) 25 days (b) 30 days (c) 24 days

(d) 20 days

18. In an office, work is distributed between p persons. If 1/8 members are absent then work increased for each person is:
(a) p/7 (b) 1/(7p) (c) 7/p (d) (2p)/7

19. Machine A produces bolts at a uniform rate of 120 every 40 second, and Machine B produces bolts at a uniform rate of 100 every 20 seconds. If the two machines run simultaneously, how many seconds will they take to produce a total of 200 bolts?
(a) 30 seconds (b) 24 seconds (c) 26 seconds (d) 25 seconds

20. After loading a dock, each worker on the night crew loaded 3/4 as many boxes as each worker on the day of the crew. If the night crew has 4/5 as many workers as the day crew, what fraction of all the boxes loaded by two crews did the day crew load?
(a) 3/4 (b) 3/8 (c) 1/2 (d) 5/8

1. d2.d 3.b 4.a 5.b 6.c 7.b 8.a 9.c 10.b 11.a 12. d 13.b 14.a 15.d 16.b 17.c 18.b 19.d 20.d