



PERSONALITY DEVELOPMENT ASSOCIATION
MADRAS INSTITUTE OF TECHNOLOGY
ANNA UNIVERSITY – CHENNAI
“DISCOVER THYSELF”

Aptitude Class.:6

Date:26/09/2016

FORMULAE:

1. If A can do a piece of work in n days, then A's 1 day work= $1/n$
2. If A's 1 day work= $1/n$, then A can finish the work in n days.
3. If A is twice as good a workman as B, then:
Ratio of work done by A and B =2:1
Ratio of times taken by A and B to finish a work=1:2

PROBLEMS:

1. A does a work in 10 days and B does the same work in 15 days. In how many days they together will do the same work?
Ans: 6 days
2. A, B and C can complete a piece of work in 24, 6 and 12 days respectively. Working together, they will complete the same work in:
Ans:7/24 day.
3. A and B together can do a piece of work in 4 days. If A alone can complete the same work in 12 days, in how many days can B alone complete the same work?
Ans: 6 days.
4. A and B can do a work in 15days, B and C in 20 days, C and A in 12 days. In how many days can they work together if (i)they work together and (ii)they work separately.
Ans: (i)10 days, (ii)A=20 days, B=60 days, C=30 days.
5. P is twice as good a workman as Q, and together they finish a work in 16 days. In how many days can it be done by each separately?
Ans:24 days, 48 days.
6. A can do a certain job in 12 days. B is 60% more efficient than A. How many days does B alone take to do the same job?
Ans: 15/2 days.
7. 12 men can complete a work in 18 days. Six days after they started working, 4 more men joined them. How many days will they now take to complete the remaining work?
Ans: 9 days

8. A group of men decided to do a work in 10 days. But five of them were absent. If the rest of the group did the work in 12 days, find the original number of men?
Ans: 30 men
9. 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?
Ans: 225 days.
10. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?
Ans: 15 days
11. If A can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?
Ans: Rs. 400
12. If 3 men or 5 women can reap a field in 43 days, how long will 5 men and 6 women take to reap it?
Ans: 15 days.
13. 3 men and 4 boys can complete a certain work in 8 days, while 4 men and 4 boys can complete the same work in 6 days. Then 2 men and 4 boys will finish it in ____ days?
Ans: 12 days.
14. A man, a woman and a boy can complete a job in 3, 4 and 12 days respectively. How many boys must assist 1 man and 1 woman to complete the job in $\frac{1}{4}$ day?
Ans: 41
15. If the price of 6 toys is Rs. 264.37, what will be the approximate price of 5 toys?
Ans: Rs. 220
16. 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work?
Ans: 24 days.
17. 4 mat-weavers can weave 4 mats in 4 days. At the same rate, how many mats would be woven by 8 mat-weavers in 8 days?
Ans: 16.
18. 30 men working 7 hours a day can complete a work in 20 days. In how many days will 21 men working 8 hours a day do the same work?
Ans: 25 days
19. If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?
Ans: 7 days.
20. If 80 lamps can be lighted 5 hours per day for 10 days for Rs. 21.25, then the number of lamps which can be lighted 4 hours daily for 30 days, for Rs. 76.50 is:
Ans: 120