RATE AND WORK

Drill 1 - Chain Rule

a. 6 days

Drill 4	– Specific Performa	nce					
	a. 1/3	b. ¼	c. 1/5	d. 1/6			
		vork they can finish in a c		inie taken by A. Working together, what			
>	40/3 hours	b. 40/9 hours'	c. 39/2 hours'	d. 39/4 hoursime taken by A. Working together, what			
		pendently, to do the sam	-	d 20/4 hours			
> A takes 8 hours to do a job. B takes 10hours to do the same job. How long it takes both A & B,							
	a. 6 4/7 days	b. 8 4/7 days	c. 10 1/7 days	d. 5 5/7days			
>				they finish the work together?			
Drill 3	– Individual Concep	ot					
	a. 6 days	b. 8 days	c. 10 days	d. 5 days			
	additional men we	ere not employed?					
	completed job on	time. Find the number o	f extra days it would hav	ve taken to complete the job if			
	days he released that job could not be completed on time. Hence employed 15 more men and thus						
>	A contractor decid	led to complete a job 30	days for which he emplo	oyed 20 men in beginning. After 10			
	a. 6 days	b. 9 days	c. 12 days	d. 14 days			
them. How many days will they now take to complete the remaining work?							
>	45 men can comp	lete a work in 16 days. Si	x days after they started	l working, 45 more men joined			
	a. 1 day	b. 2 days	c. 5 days	d. 4 days			
	•	•	ake to complete the remaining work?				
>	12 men complete	a work in 9 days. After th	ney have worked for 6 da	ays, 6 more men joined them. How			
	a. 5 days	b. 10 days	c. 15 days	d. 20 days			
		en, if he had not engaged		,,			
	engaged an additional 100 men and completes the work. How many days behind the schedule would						
>	A contractor unde	rtakes to do a piece of w	vork in 40 davs. He engag	ges 100 men and after 35 days he			
Drill 2	– Group Concept						
	a. 8 days	b. 6 days	c. 4 days	d. 7 days			
	same work?						
>	•	men and 8 boys take to do the					
	a. 8 days	b. 16 days	c. 24 days	d. 32 days			
	same work?						
>	If 5 women or 8 girls can do a work in 84 days. In how many days can 10 women and 5 girls do the						
	a. 100 days	b. 98 days	c. 99 days	d. 97 days			
ŕ	in how many days	f 9 men working 6 hours a day can do a work in 88 days. Then 6 men working 8 hours a day can do it n how many days?					
>	If 9 men working 6	5 hours a day can do a w	ork in 88 days. Then 6 m	en working 8 hours a day can do it			

A can do a piece of work in 80 days. He works at it for 10 days and then B alone finishes the remaining

c. 24 days

d. 30 days

work in 42 days. In how much time will A&B, working together, finish the work?

b. 12 days

>	A can finish a work in 18 days and B can do the same work in 15 days. B worked for 10 days and left the job. In how many days A alone can finish the remaining work?							
	a. 2 days	b. 4 days	c. 5 days	d. 6 days				
>	A can finish a work in 24 days, B n 9 days and C in 12 days. B&C start the work but are forced to leav after 3 days. The remaining work done by A in:							
	a. 10 days	b. 20 days	c. 30 days	d. 40 days				
Drill 5 -	- Work with wages							
>	A, Band C can complete a job in 4 days, 5 days and 6 days respectively. They work together and complete it. If their total wage is Rs.3700, find A's wage?							
	a. Rs. 1200	b. Rs. 2000	c. Rs. 1500	d. Rs. 1400				
>	 X, Y and Z take a job on contract for Rs.8000. X and Y started the job and completed 4/5 th of the job. then took over and completed the remaining work. Find Z's share. 							
	a. Rs. 1000	b. Rs. 1500	c. Rs. 1800	d. Rs. 1600				
>	 P, Q and R can together earn RS.3100 in 10 days. Q and R together can earn RS.1320 in 6 days. P and together can earn RS.1050 in 5 days. Find R's daily earning. 							
	a. Rs. 120	b. Rs. 220	c. Rs. 350	d. Rs. 400				
Drill 6	- Efficiency determine	d						
>	R is thrice as good as workman as S and is therefore able to finish a piece of work in 40 days less than S. find the time in which they can do it working together?							
	a. 15 days	b. 8 days	c. 27 days	d. 22 days				
>	A is 50% as efficient as B. C does half the work done by A&B together. If C alone does the work n 40 days, then A, B and C together can do the work in:							
	a. 6 days	b. 10 1/3 days	c. 13 1/3 days	d. 14 1/3 days				
>	A takes twice as much time as B or thrice as much time as C to finish a piece of work. Working togeth they can finish the work in 2 days. B can do the work alone in?							
	a. 6 days	b. 3 days	c. 2 days	d. 8 days				
Drill 7	- Pipes and Cisterns							
>	Two taps can fill a tank in 12 and 18 minutes respectively. Both are kept open for two minutes and then the first is turned off. In how many minutes more will the tank be filled?							
	a. 12 minutes	b. 13 minutes	c. 14 minutes	d. CBD				
Two pipes A& B can fill a tank in 36 hours and 45 hours respectively. If both the pipes as simultaneously, how much time will be taken to fill the tank?								
	a. 20 hours	b. 50 hours	c.25 hours	d. 30 hours				
>				Brd pipe empties the full tank in 20 me will the tank be filled?				
	a. 8 hrs 30min	b. 7 hrs 30min	c. 5 hrs 30min	d. 6 hrs 30 min				
DDACT	ICE DDOBLEMS							

PRACTICE PROBLEMS

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

	a. 1:2	o. 3:2	c. 2:1	d. 2:3			
2.	A and B can do a piece	of work in 45days and 4	Odays respectively. They	began to do the work together			
	but A leaves after som	ut A leaves after some days and then B completed the remaining work in 23days. Find the number of					
	days after which A left		_	·			
	a. 5	o. 11	c. 9	d. 7			
3.	A can alone audit the o	company's accounts in 12	davs while B alone take	s 3 more days than A. A and B			
				s. How much is paid to C?			
	a. Rs. 4500	b. Rs. 3600	c. Rs. 2700	d. Rs. 3000			
4.							
••	A can do a piece of work n 7 days of 9 hours each and B alone can do it in 6 days of 7 hours each. How ong will they take to do it working together 8 2/5 hours a day?						
	a. 4 days	b. 2 days	c. 3 days	d. 5 days			
5.	•	•	•	•			
٥.	5. X can do ¼ of a work in 10 days, Y can do 40% of work in 40 days and Z can do 1/3 of work in 13 Who will complete the work first?						
	a. X	b. Y	c. Z	d. X or Y			
6.							
0.	X and Y can do a piece of work n 20 days and 12 days respectively. X started the work alone and then after 4 days Y joined him till the completion of work. How long did the work last?						
	a. 10 days	b. 9 days	c. 8 days	d. 7 days			
7	•	•	•	•			
7.	•	A can do a piece of work in 10 days, B in 15 days. They work for 5 days. The rest of work finished by C in 2 days. If they get Rs 1500 for the whole work, the daily wages of B and C are?					
_	a. Rs. 225	b. Rs. 200	c. Rs. 250	d. Rs. 275			
8.	•	•	· ·	ame in 12 days. Starting with A,			
	· · · · · · · · · · · · · · · · · · ·	days. The total work wil	•				
_	a. 10 3/4 days	b. 11 3/4 days	c. 12 3/4 days	d. 13 3/4 days			
9.	· · · · · · · · · · · · · · · · · · ·			ere is also a waste pipe in the			
	cistern. When all the three are opened, the empty cistern is full in 20 min. How long will the waste						
	pipe take to empty the		_				
	a. 3	b. 4	c. 5	d. 10			
10.	•			milar taps are opened. What is			
		fill the tank completely?					
	a. 4 hrs 30min	b. 5 hrs 30min	c. 3 hrs 20min	d. 3 hrs 45 min			
11. A can do a certain work in the same time in which B and C together can do it. If A and B tog							
	·	alone in 50 days, then B a					
	a. 25 days	b. 35 days	c. 45 days	d. 55 days			
12.	_		re is able to finish a job i	n 60 days less than B. Working			
	together, they can do i						
	a. 25/2 days	b. 35/2 days	c. 45/2 days	d. 55/2 days			
13.	A & B can do a work in 8 days, B & C can do the same work in 12 days. A,B & C together can finish in 6						
	days. A & C will do it in how many days?						
	a. 6 days	b. 8 days	c. 10 days	d. 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 wor	man to complete the job	in ¼ of a day?				
	a. 15 days	b. 29 days	c. 54 days	d. 41 days			
15.	12 men can complete a	a piece of work in 4 days,	while 15 women can co	mplete the same work in 4			
	days. 6 men start working on the job and after working for 2 days, all of them stopped working. How						
	many women should be put on the job to complete the remaining work, if it is to be completed in 3						
	days?						
	a. 15 days	b. 29 days	c. 54 days	d. 49 days			