CETATIE ALL BRANCHES

GENERAL APTITUDE

Quantitative Aptitude



Lecture No: 07



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More on Time & Work



Understanding Pipes & Cistern

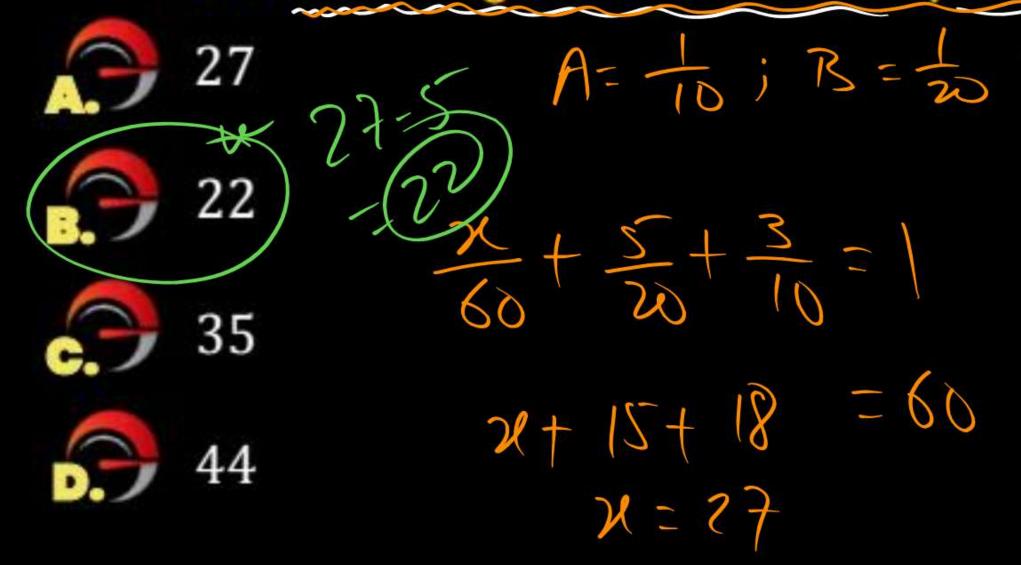


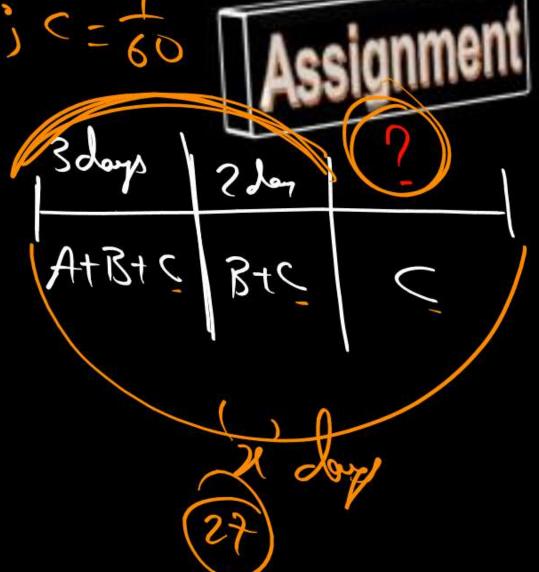
Concept of Contract Share



Questionnaire on the Topic

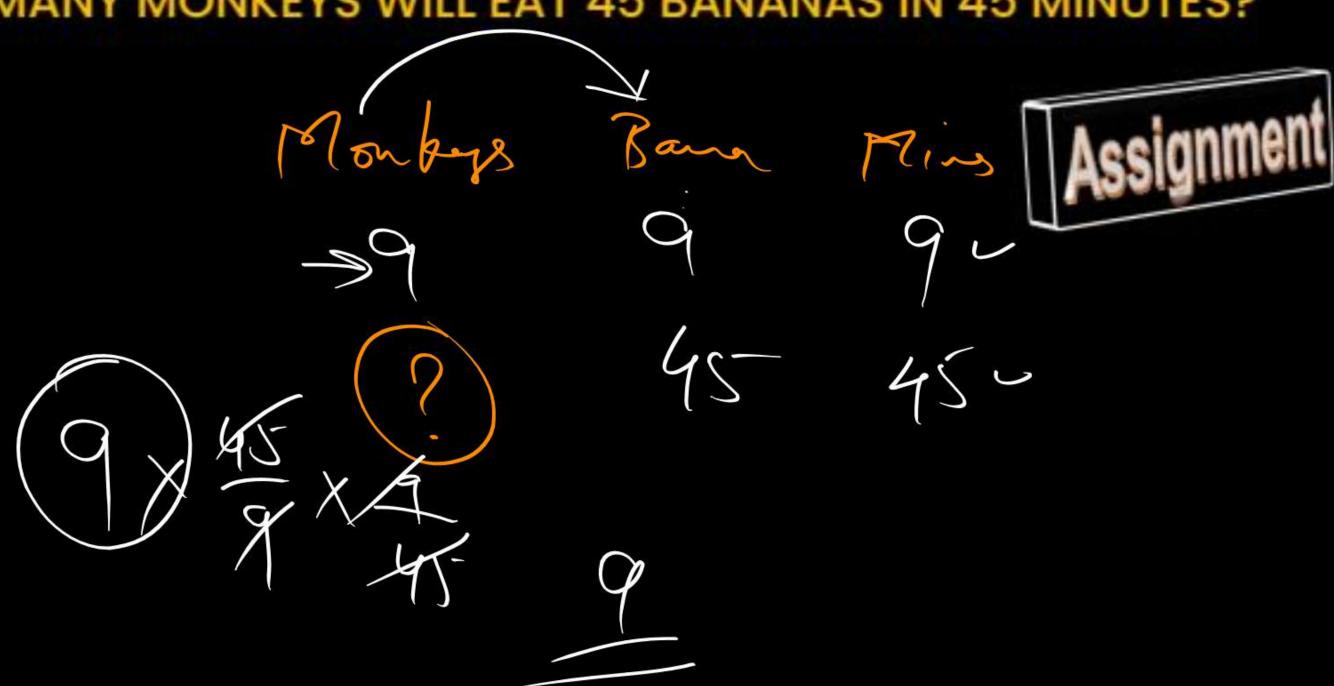
A can do a work in 10 days whereas B in 20 days and C in 60 days. They started the work together. But A left at the end of 3rd day and B left at the end of 5th day. Then the remaining work was done by C in how many days?







If 9 MONKEYS EAT 9 BANANAS IN 9 MINUTES, THEN HOW MANY MONKEYS WILL EAT 45 BANANAS IN 45 MINUTES?





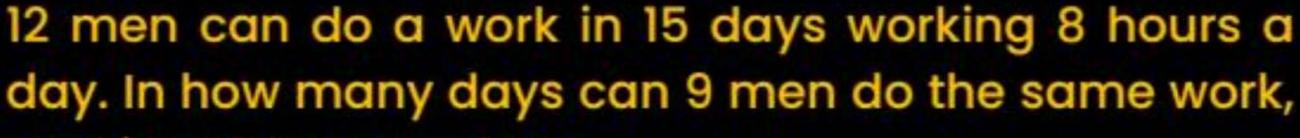
CHAIN RULE



1 (1) × T

421.6x= 68

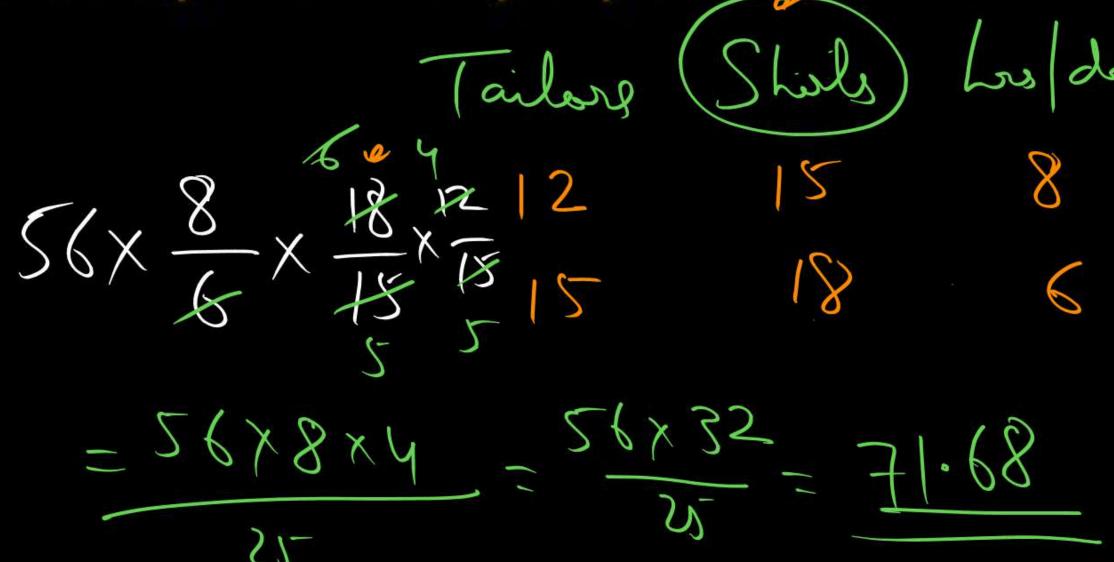




working 10 hours a day? = 4x4 = 16day

If 12 tailors can stitch 15 shirts working 8 hours daily in 56 days, then 15 tailors can stitch 18 shirts working 6

hours daily in how many days?





A Clock which gains 10 minutes in every one hour was set correct at 6 am. If that clock represents 1 pm the same day, what must be the correct time?

6m 2pm 70/0

C. W. 60 min

W. W

70 min

7hus

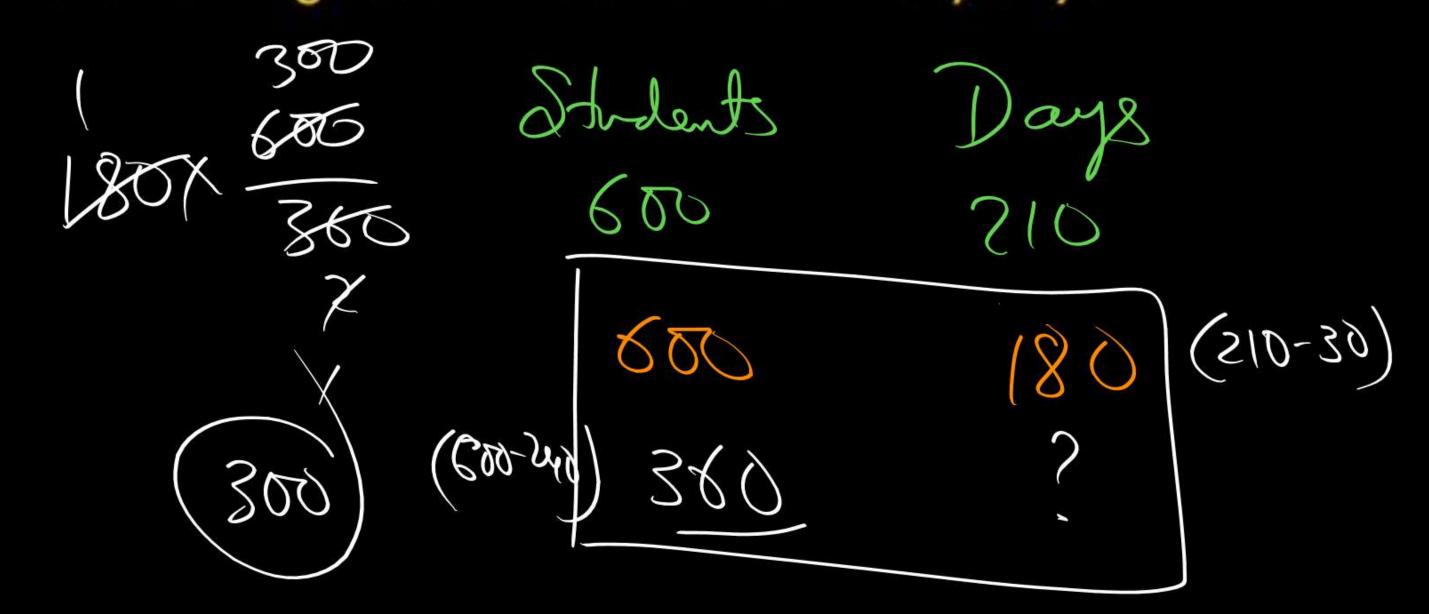


A Clock which gains 10 minutes in every one hour was set correct at 6 am. If the correct time is 12 pm the same day, what would be the time shown by that clock?





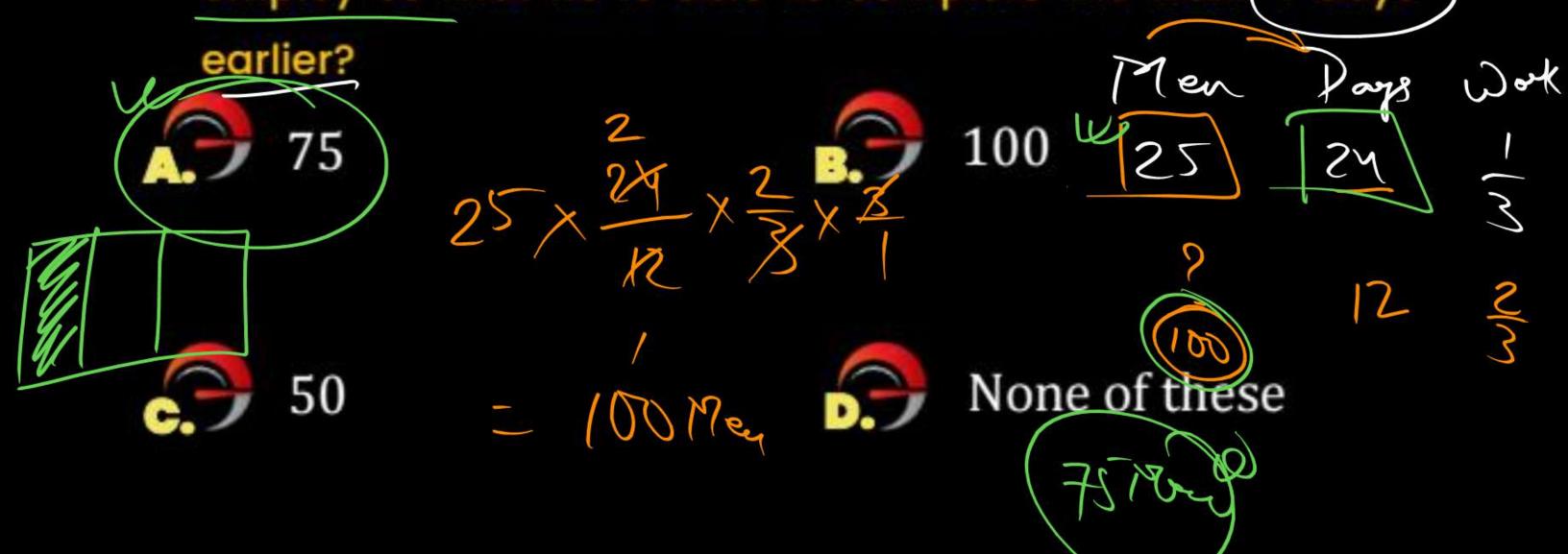
A hostel with 600 students had sufficient food for 210 days. After 30 days, 240 students left the hostel. Now the remaining food will last for how many days?

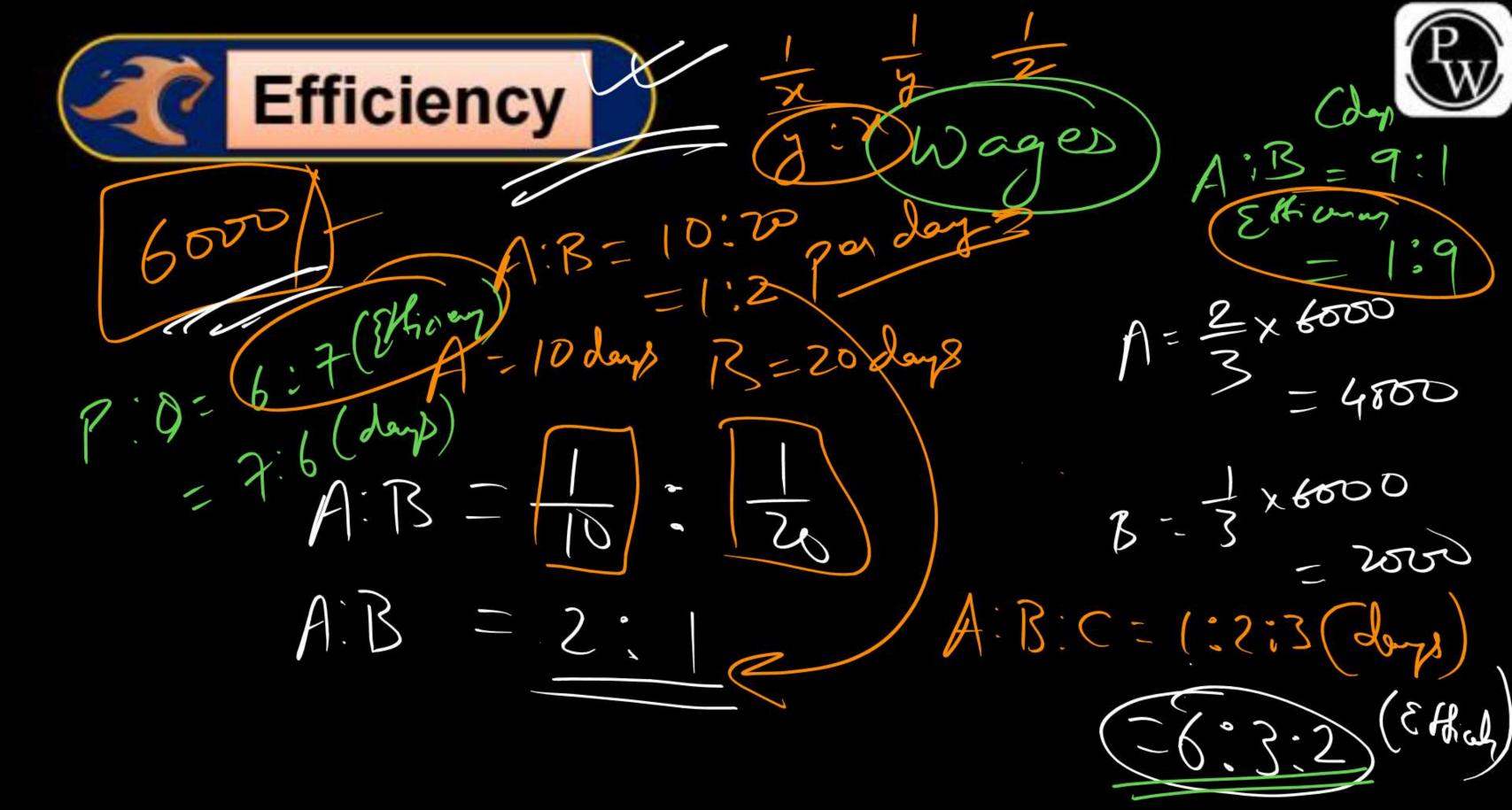




A contractor under takes to make a road in 40 days and employs 25 men. After 24 days, he finds that only one-third of the road is made. How many extra men should he employ so that he is able to complete the work 4 days

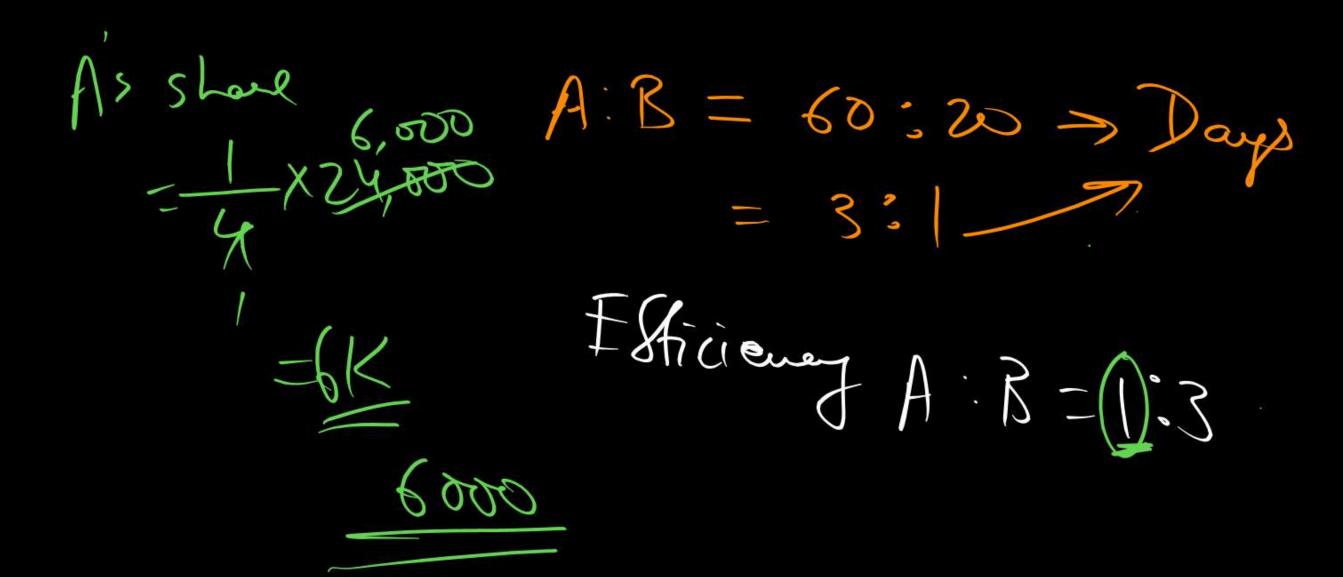
40-4-36da







A can do a work in 60 days whereas B in 20 days. If they together took a contract of ₹24000, then what would be the share of A?





PIPES & CISTERN





TAP B'

TAP (A')

5 hrs

6 hrs

30 = 28 hg

- 4hy (-1)

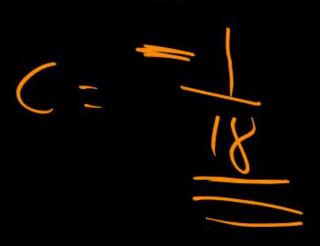


A tank consist of three taps A, B and C. Tap A and tap B can fill the tank in 20hrs and 12 hrs respectively, whereas tap C can empty the tank in 18hrs. C was kept open whereas A and B are opened in alternate hours i.e.

1st hr A, 2nd hr B, 3rd hr A.....so on. In how many hours

the tank would be filled?





15-1 Lz (45)°. 2 ml B 2 c - 12 - 18 = 80 = 36 x 41 L 1 mm > +384 2m 7-289 (145) 2 mi > 18 $\frac{1}{2}$ $\frac{1}$ 54m -> 27ft 89hrs > 44 45 56m 728H



Q. Two pipes A and B can fill a tank in 8 minutes and 12 minutes respectively. Both the pipes are opened together and after 3 minutes, pipe A is turned off. What is the total time required to fill the tank?



3 minutes



7.5 minutes



4.5 minutes



10 minutes



Pipes A and B can fill a tank in 4 hours and 8 hours respectively. Pipe C can empty it in 16 hours. If all the three pipes are opened together, then how long will it take to fill the tank?



4.5 hours



2 hours



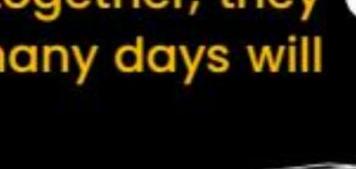
6 hours



3.2 hours



A is twice as good a workman as B and together, they finish a piece of work in 18 days. In how many days will A alone finish the work?





28 days



30 days



27 days



29 days





A can do ¾ th of a work in 12 days. In how many days

can he finish 1/8 th of work?





A tank can be filled by 20 buckets each of capacity 13.5 litres. If the capacity of each bucket be 9 litres, how many buckets will fill the same tank? Assign ment











