(Group4)

2) Pipes and Cisterns

Main point > (Invert) NE +

cs: total work in 3 oclays, the one day

2) work P, time I days!

men P, work T, time I, days!

DA can work 5 times feester than B and takes bockups less than B to complete weark. In how many days down A and B individually can complete the work,

Soly. give . A talus - 360 days less than B

A Judays noodey

Also Adeys = 5 Bodons A complete stimus feet &

4n = 300 Aisbig n = 7sdeep -> Bromplete day

> 30 fundador

A->n-60 (A= 15 days) -> A complete days. the no of days required to complete same work by somen?

Sobr Mistelu to be prone > 24 310

カンしゃいころのメルタ

n=300 fri=125 days unory × hus if no frenen increase days shouldreduce

So Perfect answer approach: - use Invertions'
2 cemen sin codays > work done is one day = to

 $\frac{1}{30} = \frac{1}{30} = \frac{30}{10} \Rightarrow 24 = \frac{30}{10} \Rightarrow 21 = \frac{3}{24}$

This is one dayworkly 30 may

So 300 men finish working? insert > 8 days/

3) A can do work insdays B cando same work in odays and (in 7 days. If they work together, in how may days will they take to complete work?

all in oneday > \$ 5 6 1 = 3 14+7+6 > 27 42 3 442 344

Invest > 14 days for A,B, C to complete weeks

Scene work in 16 days and Rand P comdo it in 24days. Find time in which P,Q, & car completes

P,QP take to complete > 32 days/

5) I can do a work in zodays. Q is 250% more afficient than P is completily the same work to how many days will a complete the work?

Sols. P in oneday > 30

6) It's men ando a more in 2 days and uboys on do the same nearle in 6 days, their in how many days will be same more be completed by 8 men and 8 boys ! 3m -> 2 days 7 x3

Sog 3m = 3(4b)

m= 46 s man downor of 4 boys.

Talinhuark by 8 men, 8 box

8mt eb

32 b+86 => 406 mork.

giver , ub in 6 days sinday whoy 40b in oneday = 10,

4 dogs total work = 6 days

General Boys entire work > 6 days > 3 days.

7) Site, Gita do work in 20, 20 days resp. Both byin together but after few days, Site lears, then gite finish remain work in walerys. After how many day did Site leave? 3 leaves

Sto Sta Sta

Sita > 20days one day Sita > 20 day

Crite 2rd s one day Gr = zaday in wate last roday getades > 10×11 > 3 of workremains weak = 3 done at fret So neofirst Sitz, Gita wak touth SIG = 10 121 -> 45 Sta = 9/100 siday Let the first lay Sta work hen the work they complete = 3 9 4n=3 => n= 300 4xx

So Sik leans after 20 days

8) when Palone does a work, he take 27 days more than the time taken by Pand Q working together to complete the work. But Q alone takes address more then the time taken by Pand Q working together to complete work. In what time, Pand Q together finish works.

Solv.: PtQ P Q N+25 N+9

10 mile N = NENTRE XENTINO = JOSKO

N + 10 = 5 x 8

P+0 > [N = 15]

P > N + 25 = 40

Q > V + 9 > 24

A can complete a work in 12 days and B can complete in 8 days. A works for 8 hours everyday while B works for 10 hours every day. If A and B together start working shows peeday, in how many days will they complete works.

Solo-, Here we have time in 2 format days, houspenday

A 12d 8 ha > 1248 > 96 hours > andles > 96

B & d wor > 8410 986 hors > one day > 40

how may hours to complete CA+B) > 96 x80

if shows parday how may days > 96 x80 176

24 10 8

= 46 x 80 = 240 60 8

+ 26x8 = 5 40 60 11

If A B work stranday they complete in 60 days

10) Ray can build a house alone in 16 days but Sway alone can build it in 12 days - Rajand Suray mort on afternate days of Ray morks on first day the house will be built in bow many days? Sob = P-> 16d > 16 S 3 12 d 3 12 alternete days IS RS 25t day = 18 andday = 12 2 days = 16+12 > 12+16 = 25 2 day = 7 Lots tale 2day x times 14day 7 × 7 = 49 >>1 (not possibly · Shold be <1 (if more) So 2x6 hours ordays Tex Y . > I morte Tremeing wole & most Sonor Rtsx12days + & work -RSPS - .. RS L .- Dethoday work Rosto & Cverylow) for one day 5 7 (2 8 (reary) Tast day work to be done by R > 16 aday

1/8 toke done > 13tday Role 1

Tremainy work 18 8 - 16 > 16

to be done to c_1 to be done to c_2 to be done to c_2 to a lay c_1 c_2 c_3 c_4 c_4 c_5 c_4 c_5 c_5 c_5 c_6 c_6 c_6 c_7 c_7