8/8/23

Quantitave Aptitude

Groups

- 1) Problems on Numbers
- 2) Problems on HCF and LCM
 - 3) Fractions & Decimals
 - (1) Square Root and Cube Root
 - 5) Simplification
 - 6) Surds and Indices

I) Problem on Numbers

1) The sum of 2 nos is 36 and product is 245. What will be sum of their reciprocalis

Solo: A+B=36, AB=248

2) In poultry farm having hers and pigs, Rohan can see 84 heads
and 282 legs. How many hers are there?

Solo Hen > 1 head
2 legs > 4 legs

Heads > H+P = 84 - 0 ×4 -> 4 H+ UP = 336 -> 3 Legs > 2 H+ UP = 282 - 2

3) Summation of 5 consentive no.s is 335. If we add largest and smallest number what we get?

Solo: Trick in consentive us > 5,6,7,8,9,10

25,5+1,5+2,5+3,5+4...

Prepresentation of conservation of conservat

->
$$2 + (2+1)+(2+2) + (2+3) + (2+4) + 245 = 335$$

 $52 + 10 = 335$
 $52 = 325$
 $4 = 65$
 $54 + 66 + 67 + 68 + 69 = 335$
Smallest largest

sum of largest and smallest = 65+69 = 134/1

(4) Since Raj was not paying attention in class instead of multiplying M by 2/4, he divided by 3/4. This led to a difference of 14 between the two answers. What is value of Ms

 $Soli = M \times \frac{3}{4} - \frac{M}{3/4} = 14$

 $\frac{3M}{4} - \frac{4M}{3} = 14 \rightarrow \frac{9M - 16M}{12} = 14 \Rightarrow \frac{7M}{12} = 14$

=> M = -24 -> M = 24

> dont consider (-) as they didn't specify

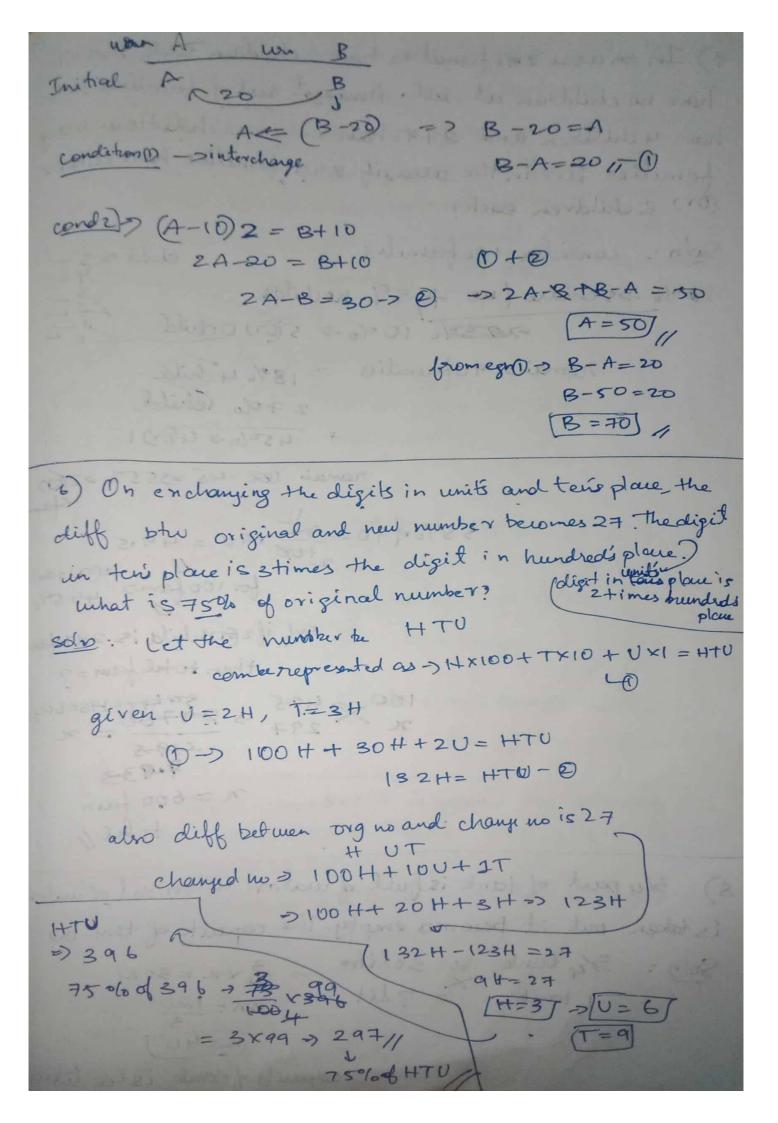
-14 (or) +14 as difference and

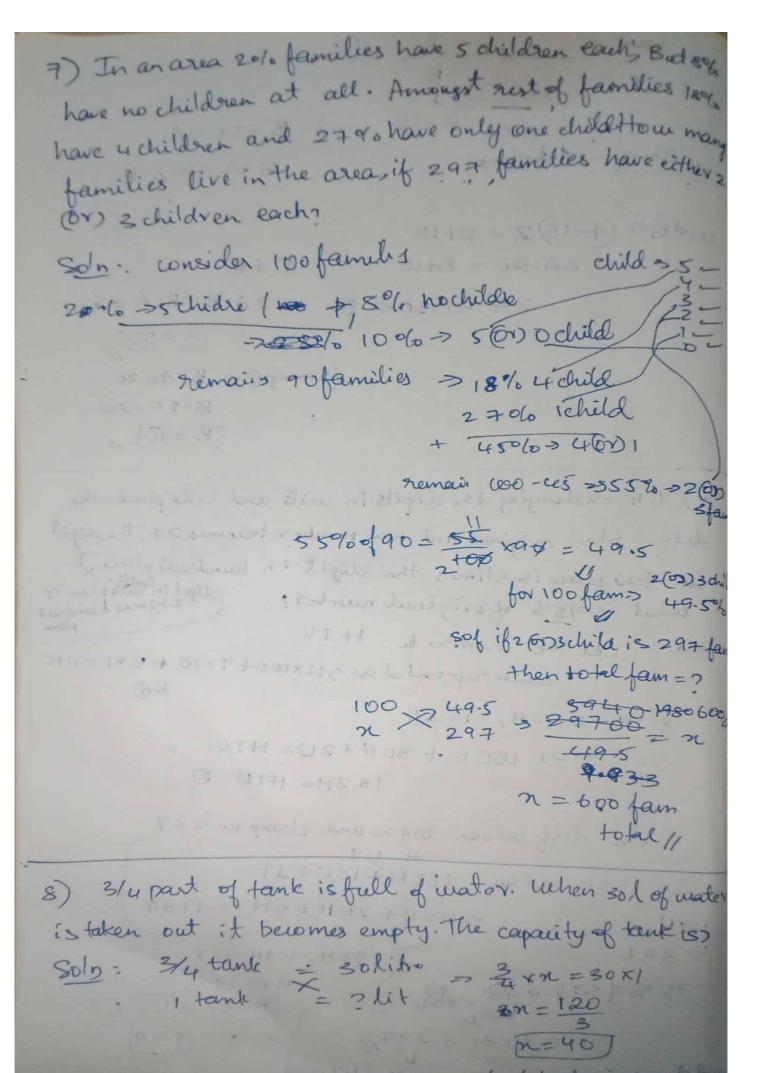
whether MP3/4 or M is greater

Tip in erram, if give option a) -24 b)24 v

ib a)-24 b)24 c) +2460) 24 v

Raman has 2 wins - Both these wins have some pobles of appelbles from win B are shifted to win A then, the no of pebbles in each win become interchanged. But if 10 pebbles from wind are put into win B. Then ho of pebbles in Base twice the noin A. How many pebbles do A and B have suspectively?





members in the club. But the government contributed the same amount as no of members. If each member had contributed the same amount as no of members. If each member had contributed the same amount as the wood members and government had given an amount twice the wood members, then they would have R3.210 less. How many members are there?

Soln: Let noof member be M

condition 1> 2M(M) + M: $> <math>2M^2 + M - O$ cond 2 > mem gort M(M) + 2M > $M^2 + 2M$ - O

 $2M^2+M-M^2-2M=210$

 $M^{2}-M=210 \Rightarrow M^{2}-M-210=0$ (M-15) (M+14)=0 M=15 M=-14 M=-15 14

alternate way) check egn and withe

the given answer options

digits of B. B is us less than A. The sum of the digets of B is 9. What is A?

Sols: 2 digit no be > TU > 10T + U > let this be B

then given A > UT (revenue BB)

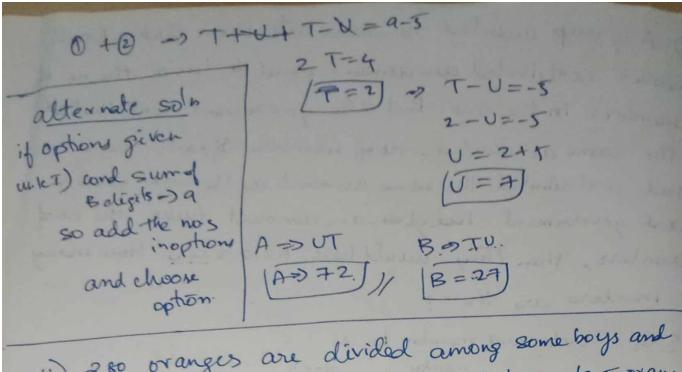
also T+U=Q — (1)

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11) 280 oranges are divided among some boys and girls whose tot no isiso' so that each boygets & oranges and each girl get toranges. The no of girls is: B+G=50-0 ->×5 5B+5G=250-3 58+76 = 280-0 -xx

3-10-7-58-15-G-58-57G = 250-280

(c)=1.5

of terrals wings check execution will

wiserest and hours in a vadour toolly and I

Charles Treatment

HADT E WOTTON 1 - 30 -- 10