Ratio & Proportion

La Just give a relation 6/w two parameter

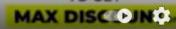










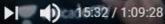




$$a+b=300$$
 $a=70m+210$
 $7+3-0300$ $b=30m+090$





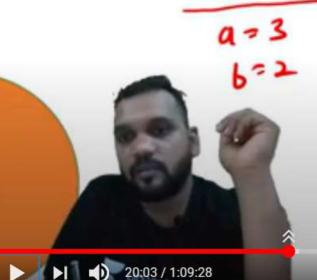






$$\frac{9}{6} = \frac{3}{2}, \text{ Hon } \int_{100}^{100} \frac{49+36}{49-36} = 2$$

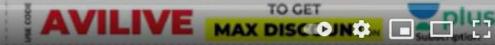
$$\frac{9=32}{6=22}, \text{ Hon } \int_{100}^{100} \frac{49+36}{49-36} = \frac{4\times3\times4+3\times2\times4}{49-36} = \frac{12+6}{12-6} = \frac{18}{6} = 3$$



$$\frac{3}{3} = \frac{12+6}{4\times3+3\times2} = \frac{12+6}{12-6} = 18$$

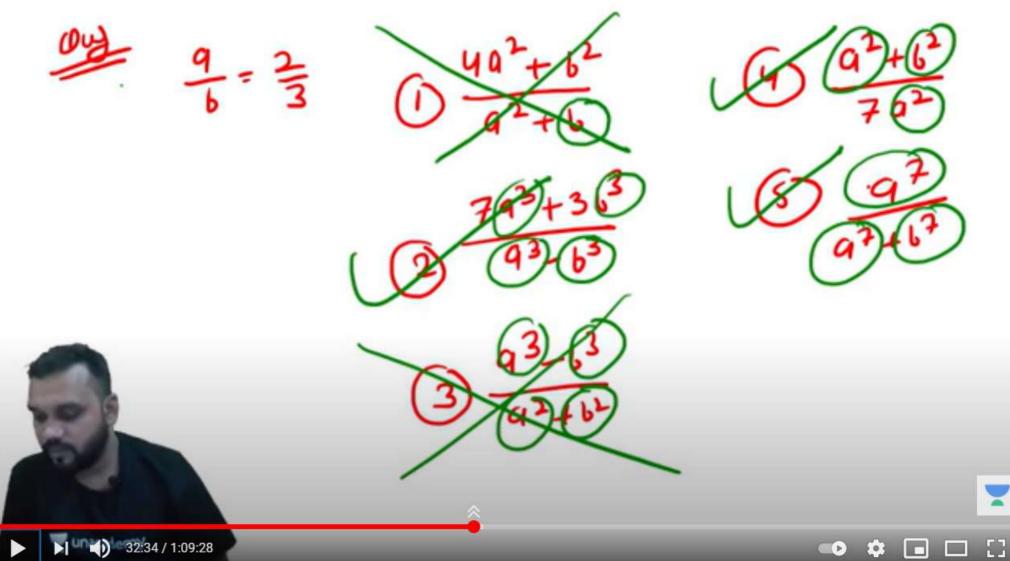






Out
$$f = \frac{3}{6} = \frac{3}{2}$$
, How $f_{1} = \frac{3a^{2} + 4b^{2}}{3a - 4b} = \frac{2}{2}$
 $6 = \frac{3}{2}$ $\frac{3a^{2} + 4b^{2}}{3a - 4b} = \frac{3(3x)^{2} + 4(2x)^{2}}{3(3x) - 4(2x)}$







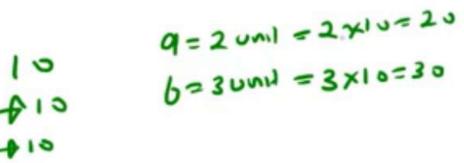




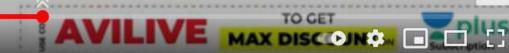




$$\frac{9}{6} = \frac{2}{3}$$
 $\frac{1000}{6} = \frac{10}{3}$
 $\frac{3-2}{6-3000} = \frac{10}{3}$
 $\frac{3-2}{6-3000} = \frac{10}{3}$







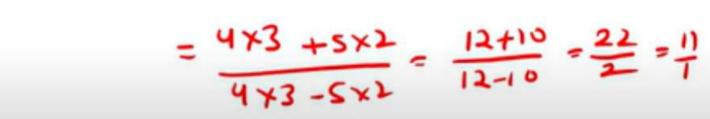
, al = 600 , then gind a & 69. 9+2 Unit = 200 213-8 600 6+3 unit - 3 x100 = 300 afz und 6-1600 +3 Unit axb=200x300 600 + 60000 271×371=600 6x12=600 axb=600 2.x30 - 600

~

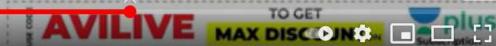


Aptitude for GATE/ESE/PSUs/AE/JE/College Placement, Topic- Ratio & Proportion 1) If m: n = 3: 2, then (4m + 5n): (4m - 5n) is equal to

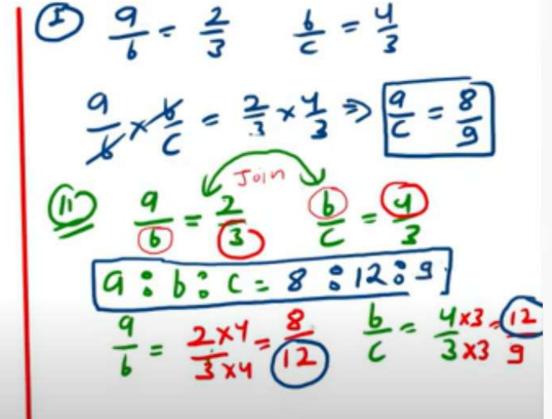
CY11:1







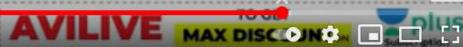
Joining the Ratio

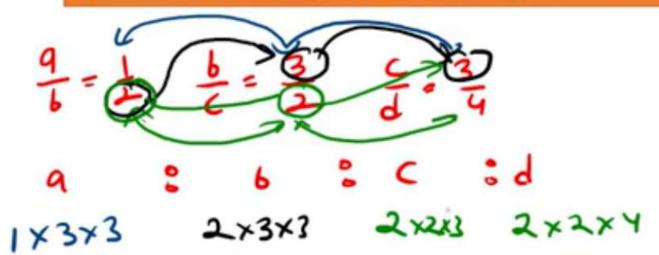


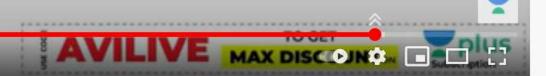








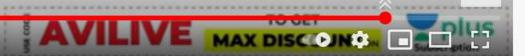




59:47 / 1:09:28

#Patio Proportion #Congral Antitude #CATE2021 Agricante







2) If x : y = 3 : 4 & y : z = 3 : 4, then $\frac{x+y+z}{3z}$ is equal to

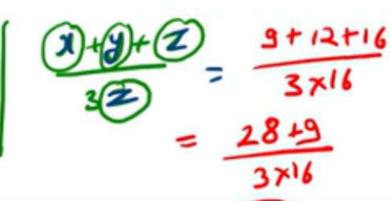
[AAI, ATC]

A) 13:27

B) 1:2

C) 73:84



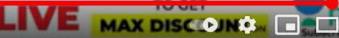




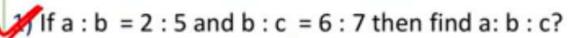










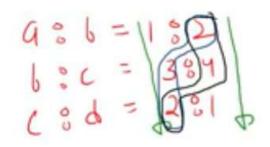




















If a:b:c=1:3:5, and 6a-2b+3c=90 then the value of bis?

B) 15

C) 21

D) 12

$$(m-1)$$
 $0368C = 13385$ $69-26+3C = 90$
 $6=3x = 318$ $6xx - 2x5x + 3x5x$
 $6=3x = 318$

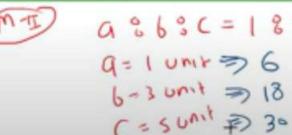
C=5x=)30

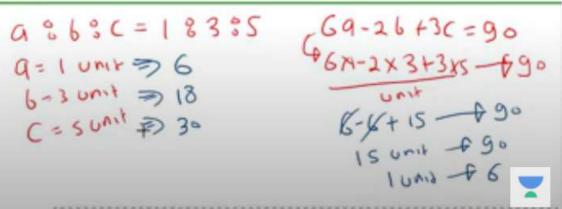
$$6x\pi - 2x5x + 3x5x = 90$$

$$|5x = 90$$

$$|5x = 6$$













3A=2B=uc, Hun find ACBic= 7.













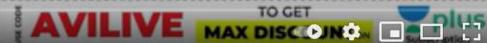


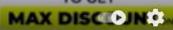




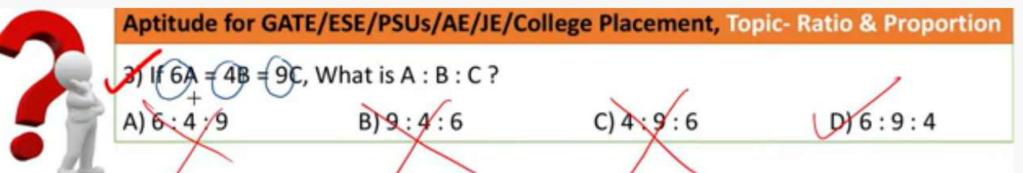














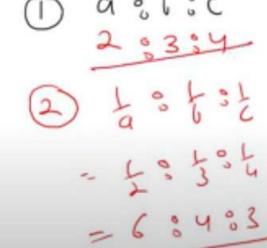








$$(a+b)$$
 % $(b+c)$ % $((+a)) = (5)$ % $\frac{1}{2}$ % $\frac{1}{6}$ % $\frac{1$



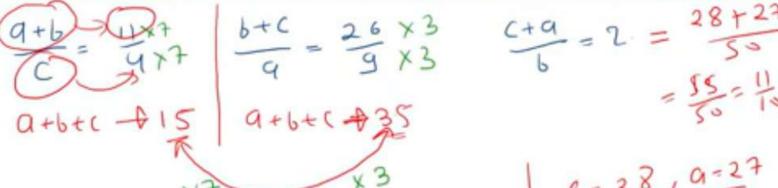


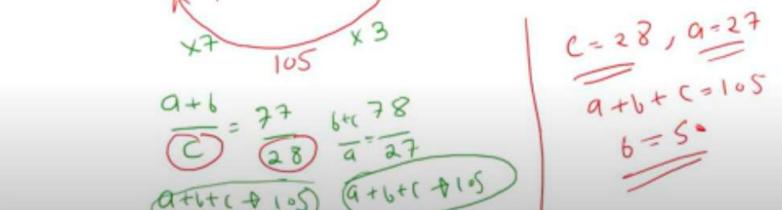




6-A3 WM+





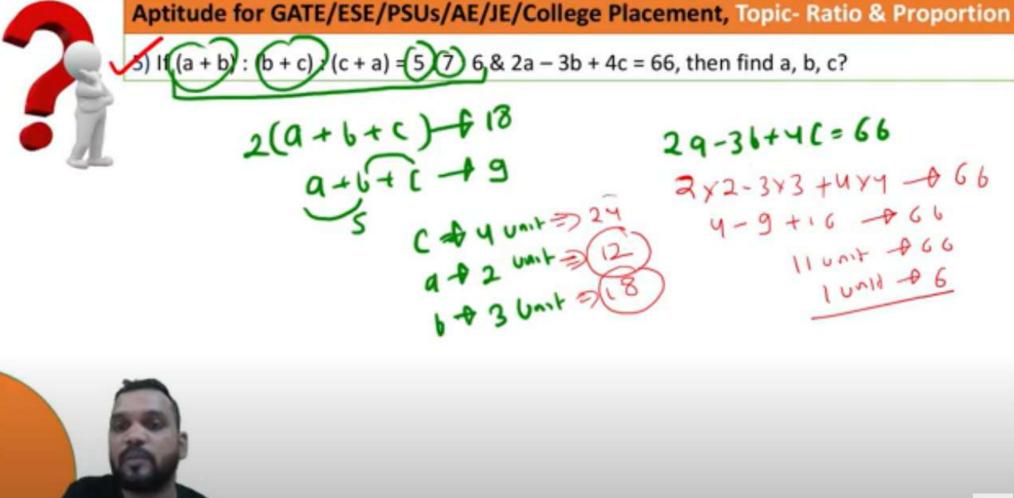






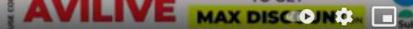
D) 17:13

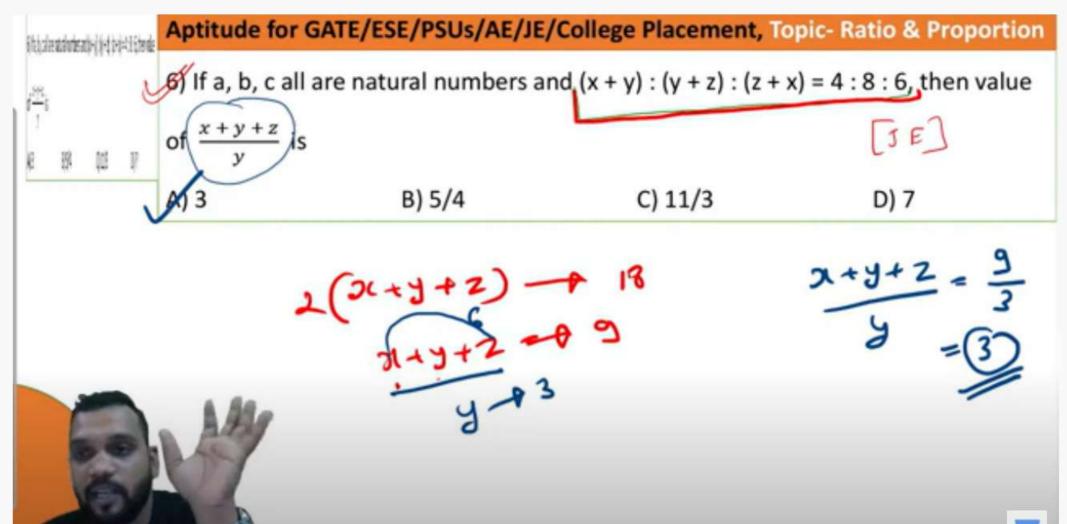
















✓1) ₹38000 are divided among A, B and C is such a manner that the ratio of the amount of A to that of B is 3:7 and the ratio of the amount of B to that of C is 6:5. the amount of money received by B is

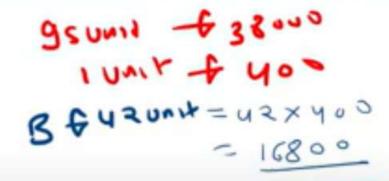
A) ₹7200

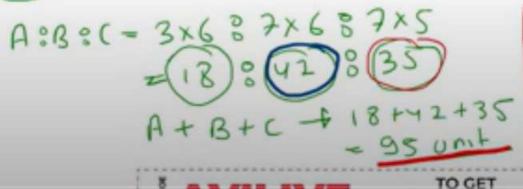
B) ₹16800

C) ₹1440

D) ₹2400

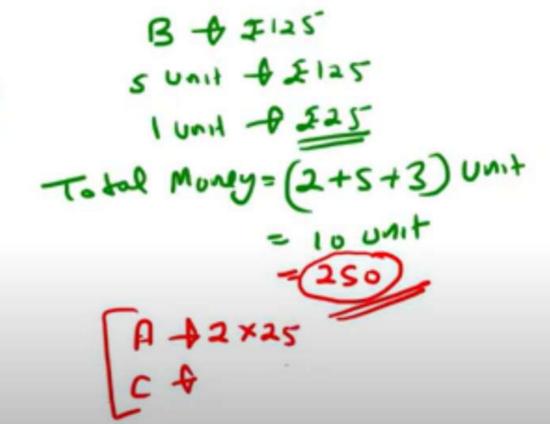






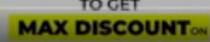
A sum of money is divided among A, B and C in the ratio 2 : 5 : 3. B gets ₹ 125. Find the total amount of money?

NAT













A man divide has property so that his son's share to his wife's and wife's share to his daughter's are both as in the ratio 5 : 2. If the daughter gets 29,400 ess than son, the value(in rupees) of the whole property is

A) ₹54,600

B) ₹56,000

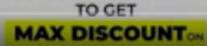
C) ₹52,650

D) ₹58,500

= 35 ×1400

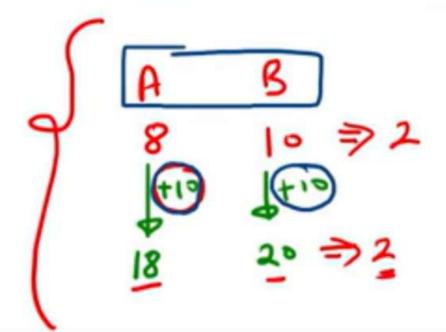


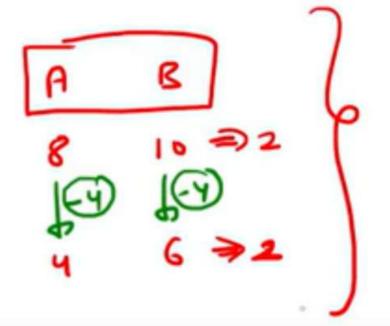




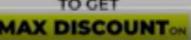


Questions based on increasing or decreasing a Ratio by given constant











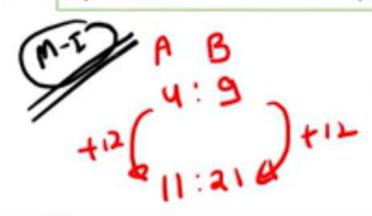
Two number are in the ratio 4:9. If both numbers increase by 12, the ratio become 11:21. The sum of the original number is:

A) 52

B) 64

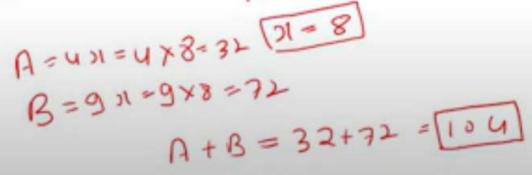
C) 128

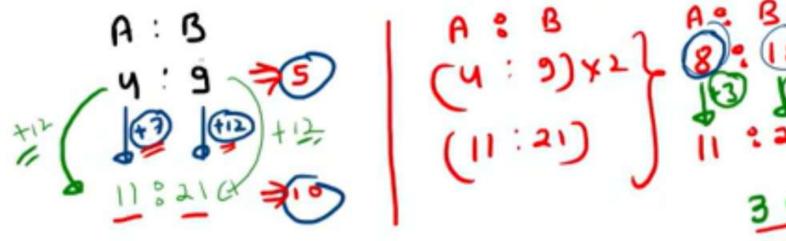


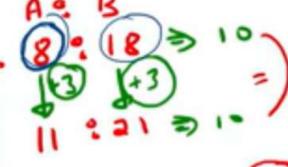


$$A = u \times B = 9 \times$$
 $4 \times 11^{2} \times 4 \times 12 \times 2 = 9911132$
 $4 \times 12 \times 2 = 12 \times 2 \times 2 = 9911132$
 $15 \times 1 = 12 \times 2 \times 2 = 9911132$













Two numbers are such that the ratio between them is 4:7. If each is increased by 4, the

ratio becomes 3:5. The larger number is

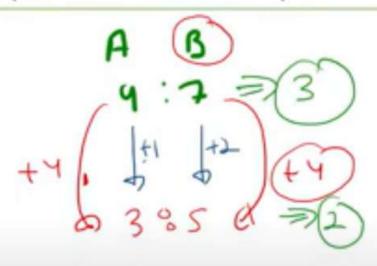
[VIZAG STEEL PLANT, 2015]

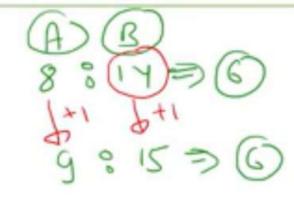
A) 36

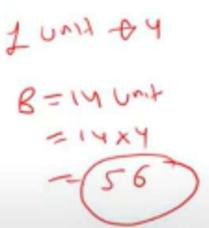
B) 48

6) 56

D) 64









6) Two numbers are in the ratio 3:5, If 13 is subtracted from each, the new number are in the ratio of 10:21. If 15 is added to each of the original numbers then the ratio become

[AAI, 2017]

AY 24 : 35

B) 4:5

C) 23:35

D) 5:7

