## Assignment (1) and Assignment (2)

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Assign	nent r	10 1	
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mexeased number = x+25% x = 85  $= x + 25 \quad x = 85$ = X+ = 85 Multiplying bus 2/ x 2/1 = 85 x 2/4 11 - [4205] 403

Total tes lated total Postion Y 1080 = 270 Heat 270 +3 = 86 Light 270 x 1= 270 Total bones 5 yo Ratio 7:4:2 15 540x7 = 240 18 540 xy = 120 18 540 × 2 = 60 540 × 5 = 150

let sons age is + years Father is 4 times older the Son names father age will It In 2x years he will be then as old as his son. After 2x years their are will be: sen age = x+24 Forther age = 4x +24 salving the equation 4x + 24 = 2x + 484x-2x=48-24 2x = 24 X = 12 The son present age 12 years Fathers age is 4x = 4x12 = 48 years

let girl be x and boy be y. X+y=26 3 years 290 boy was y-3. gisl was X-3 stace gill was 4 times ago ose of 2/80. x-3 = 4(y-3)4-3=44-12 Shace x = 26 - y (26-7)-3=44-12 23+12=44+4 35= 5 M Hense gill is 19 years and bon It years.

Say the numbers are x and we know mad 2+y= 84 x=12+4 so then seplace the x in the first line with its equalent (12+4) from the second line and solve for y. (12+4)+4=84 12+29=84 6+4= 42 y= 42-6 = 36 & y= 36, and x = 12+y=12+36= The two mumbers are 36 and 48

Not 180 180 1. = 120 856 150 x 201 = 30 150 -30 = 120 complement of 20108 0.2 is 08 P.O & 1:0 80 1:04 & teremelyon 150 (08 x 0.9) 50 x 0.72 = 108 selling Rice = 18-75 cost Mup based on cost = 3:75 Percentage mark up based on cost  $\frac{3.75}{15}$  × 100 / = 25 /

selling Rice \$ 3.38 cost \$ 2.60 Mark up on cost = \$ 0.78 Mark up percentage on cust = 2.6 × 100.1 = 30.1 cost 4.50 M. up 26.1. @ selling Price = 4.50 x 126.1. =5.67 @ Mark up = 1.17 (B) solling price 1.03e 1.17 x 100.1.=26x 4.50

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Supose the fraction is x Them x+y = xy-3 sety = - ry = -3 x-y = -3 - 0 and  $\frac{x-1}{y-1} = \frac{1}{2}$ 2(x-1) = y-12x-2= y-1 2x-y = -1+2x-y = 1 \_\_\_\_\_\_ @ - @ x-X = -3 2x-y=+1 Des ni tur Pox -x=-4 4-4 = -3 -y = -3 - yF- = 5y=7 Ams

let 1 boy alon can finish it in I days and I man can traish the work in x days. Then I mans I day work = 1/x I boy I day need = /y (4m on 1 day work)+(6 boys, 1 day work) = /= => 1/x + 6/y = 1/5 4x + 6v = /5 (where /4 = v) 4v + 6v - 1/5 - 0 niesco (3 mens I day work) (4 boy I do mask ) = 1/7 3/x + /y = /z

on multiplying (1) by 3 and 2 by y weget 12 × + 18 × = 3/5 - 3 12 v + 16v = 77 - 3 sub 3 and 4 we get 2v= (3/5-4/4) 2V= 1/35 V= /35 x2 V= /70 Yy = V /y = //to Y= to days Putting v= /to in en a weget 4v+ bv = 1/5 MV = (1/4 - 6N) N= (15-6/40) Mn= (14-6/70)

yv = (8 (70) V= 8/70 × /4 V= /25 1/x = V 1/4 = 1/35 X = 35 days Therefore one man alone can finish the nesk in to gang are boy done can firish me work in 35 days.

Ans Not cost 150 x 80 1. = 120 08 150 + 201, = 30 150 -30 = 120 Complement of 20.1.08 0.5 is 0.81 P.O W 1:0 80 1:04 & tramseques 129 (0.8 × 0.9) 150 × (0.72) = 108 list Price \$120 120 x (0.8 x 0.9) 120 x (0.72) = 86.4