```
ITEM 1.
 of textbooks and an exercise book respectively
   25x + 25y = (135000 - 13000)
   210c + 384 = 122000 - 1
  Solving equations (1) and (1)
     21x + 35y = 122000

25x + 35y = 135000
     Soon ean @
            20 = 135000 - 354
   Sub for se in equition (1).
    21 (135000-354) + 384 = 122000
  mutiply throughout by 25.
 (21x25 (135000-354) +384x25 = 122000x25
    21 (135006-354) + 384×25 = 122000 ×25
2835000-735 y + 950y = 3050000
             \frac{215y}{215} = \frac{3050000 - 2835000}{215y} = \frac{215000}{215}
                  y = 1000k
```

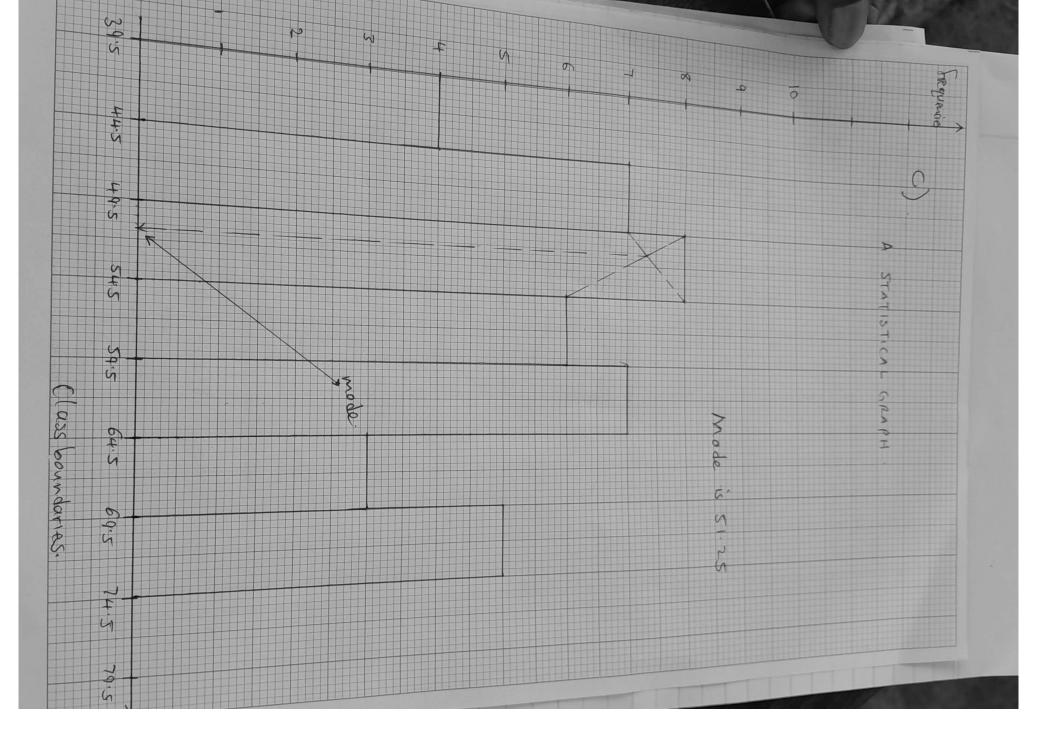
Difference in he amount spent = 135000-131750	
= (25×3800) + 35(1050) = 95000 + 36750 = 131750.	
Cost of each exercise book = 1000 + 5 ×1000 loo	
(cost of the text book in = 4000 - (5 x4000) Sorot bookshop = 4000 - 200	6
Cost of Each pext book is UGX 4000.	
= 135000 - 35(1000) = 135000 - 35000 - 4000	

```
ITEM 2
      (b)
                           45000
                           30000
                           15000
                           50000
  3×45000 +5×30000+ 10×15000 +3×50000
  1 × 45000 + 0 ×30000 + 4×15000 + 2×50000
  4 x45000 + 3x30000 + 6x15000 + 1x50000
  5×45000 + 1×30000 + 0 x15000 + 0×50000
     135000 + 150,000 + 150,000 + 150,000
      45000 + 0 + 60000 + 100000
     180000 + 90000 + 90000 + 50000
     225000 + 30000 + 0 +
            585000
            705000
            410000
             255000
 He spent as follows
Makassero market 585000
Gapaza market 205000
Juja market 410000
Masalea market 255000
```

ITEM 2.
(a) matrix for produce. Reans maire Polato millet N 3 5 10 3 G 1 0 4 2 T 4 3 6 1 N 5 1 0 0
Matrix for buying price.
Bean (45000) Maize 30000 Potato (5000) Millet 50000
Matrix for selling price.
Bean 50000 Maire 35000 Patato 18000 Mulet 55000

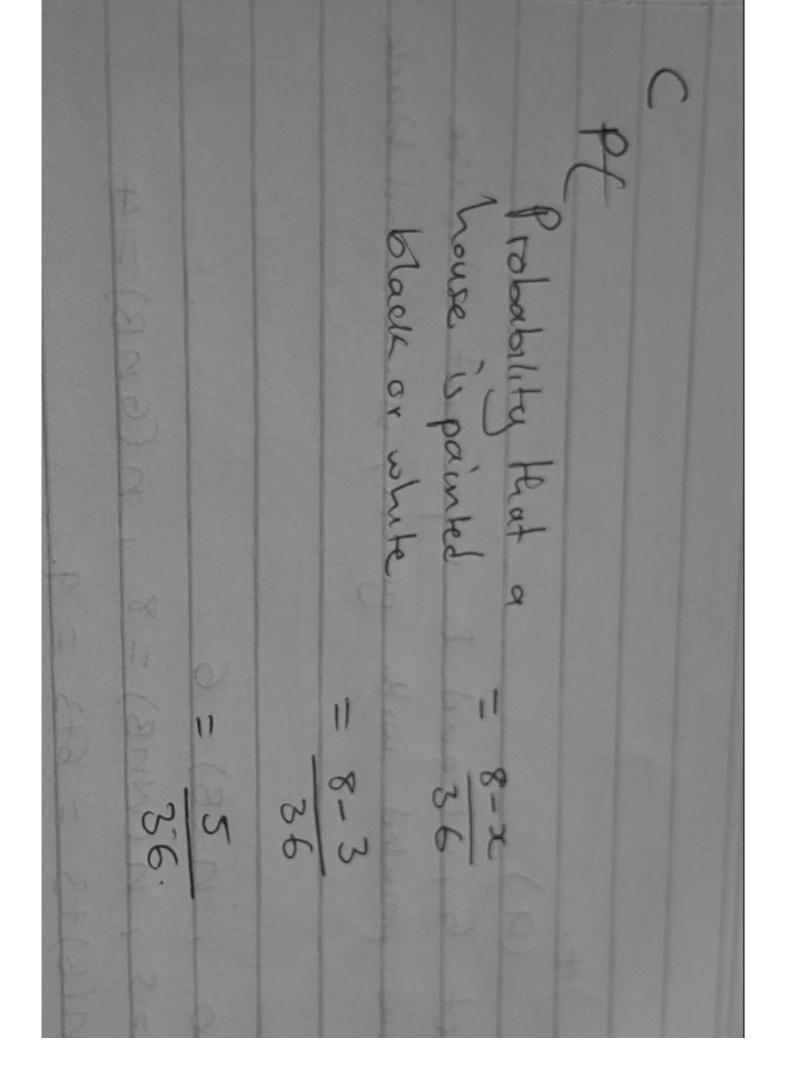
```
ITEM 2
    44
              10
                            35000
         0
                           180000
                           55000
 3×50000 + 5×35000 + 10×18000 + 3×55000
 1×50000 + 0×35000 + 4×18000 + 2×55000
 4x50000+3x35000+6x18000+1x55000
 2 x 20000 + 1 x 3 2000 + 0 x 18000 + 0 x 5 2000
   150,000 + 175,000 + 180,000 + 165000
   50000 + 0 + 72000 + 110000
   200000 + 105000 + 108000 + 55000
   250000 + 35000 + 0 +0
              670000
              232000
              468000
              285600
Profit made in each market.
                          585000
           670000
                          205000
          782000
                          410000
          468000
                          255000
          285000
             85000
                         He madeaprofit
    1
             27000
             58000
             30000,
```

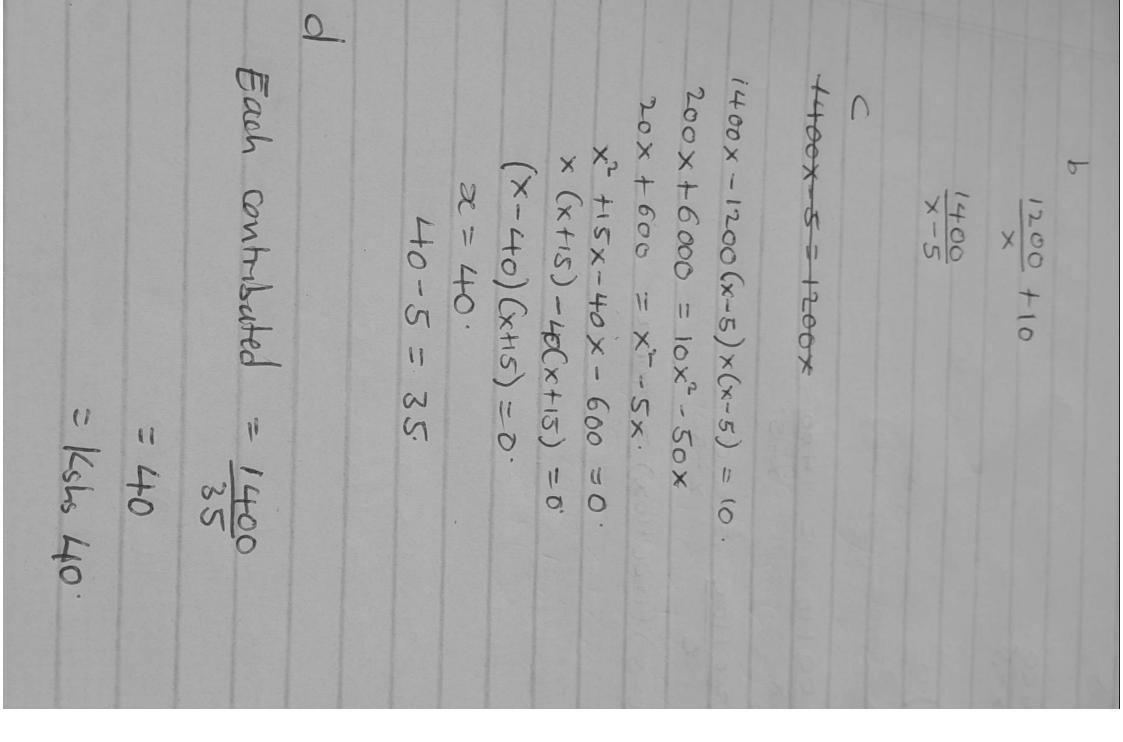
1TEM 3. a)						
Class tally 40-44 IIII 45-49 HHIII 50-54 HHIII 55-59 HHI II 65-69 111 70-74 HH	4 42 7 47 8 52 6 57	168 329 416 342 434 201 360 EFX= 2250	Class bandaries 39.5 - 44.5 44.5 - 49.5 49.5 - 54.5 54.5 - 59.5 54.5 - 64.5 64.5 - 69.5			
Mean = $\frac{\sum fx}{\sum f}$ = $\frac{2250}{40}$ = $\frac{56.25}$						
$mode = t_1 + \left(\frac{d_1}{d_1 + d_2}\right)I$.						
$= 49.5 + (1) \times 5.$						
= 49.5 + 5.						
= 51.1667.						

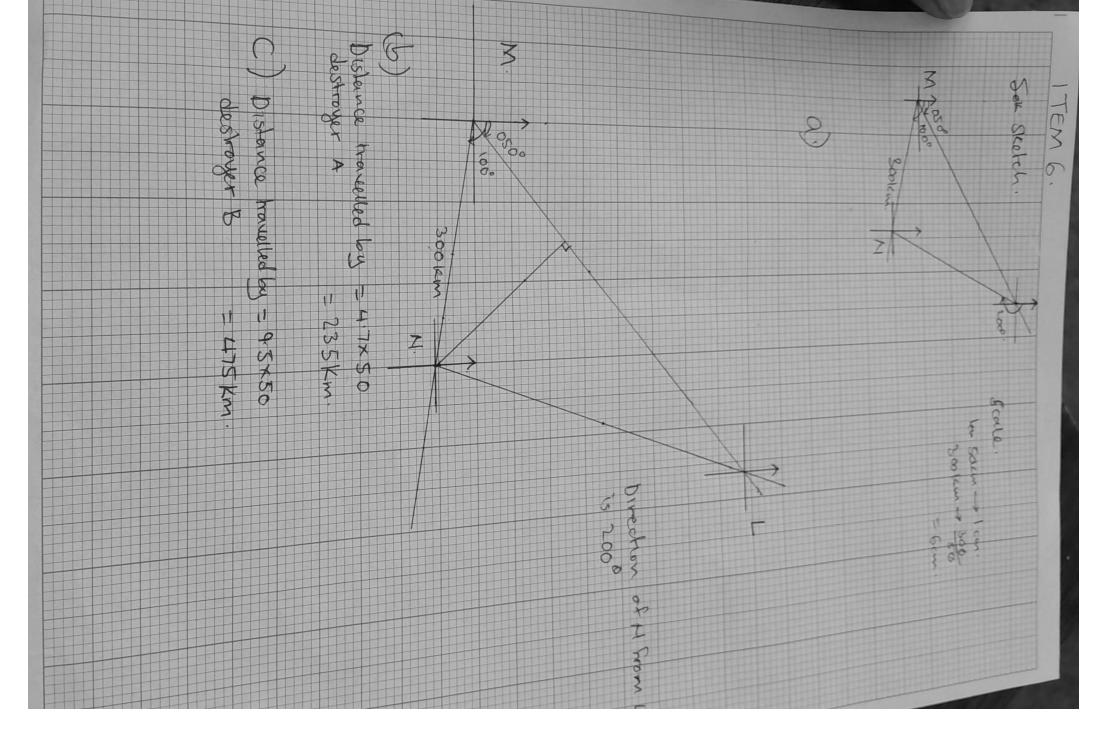


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ITEM 4. Let G, x and B represent ahouse that was painted with green, white and black Colour . n(G)=(0, n(B)=6 n (Gnw) = 5, n (WnB) = 8, n (GnB) = 4 n(W) = n(B) + 3 = 6 + 3 = 9let or be n (WINGHB) (6)= MCB)= 10 n(W) 10+4-x+6+5-x+x+x+9=36 42-2x = 36. -20c = -6 -2x = 3. b) (A+ least) = 10+4-x+6+5-2c+2c+8-2c+9 = 42-200. = 42-2(3). = 36







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