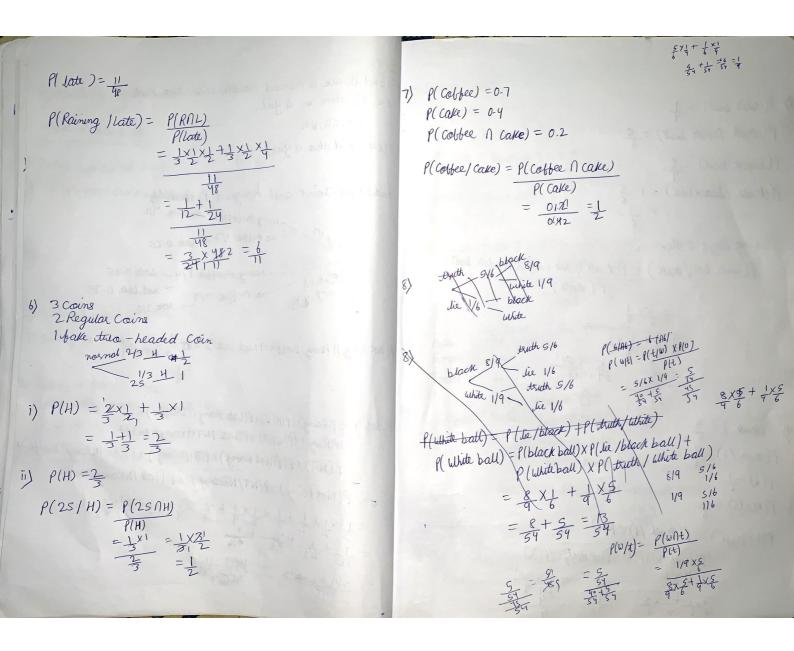


## **Scanned with CamScanner**



```
8) P( white ball) = }
    P(truth /white ball) = 5
   P(black ball) = \frac{e}{9}
P(black ball) = 1 - \frac{e}{6}
= \frac{1}{6}
                                                                        P(Math 1) Science) = 0.4
                                                                   10) p(Math 1 Science) = 0.4
                                                                       P(Math) = 0-6
      Using Baye's theoren
                                                                        P(Science/Math) = P(Science Math)
        P(white ball touth) = P(touth) white ball) X P(white ball)
P(touth)
                                                                                              P(Math)
                                                                                          = 0.142 = 2
                                                                                  waduate lost waduate Total
                                                                                   19
                                                                    11)
                                                                         Male
                                                                         Female
                                                                                                               40
                                                                         Total
  9) P(truth) = 4
                                                                                          - headuate 12/31
     P(touth/6)=4
                                                                               Emole 0.4 fost Graduate 28/69
     P(6) = 1
                                                                            P(Male N Graduate) = P(Male) XP(Graduate Male)
     P(Motb) = 5
                                                                                               = 0.6 \times 19 = 11.4
     P(6/trutk) = P(truth /6) X P(6)
                  P(trath/6)XP(6)+P(trath/1) /P(16)
                                                                         Its a Joint probability as we taking untersection of
                                                                            Males and Graduates
```

