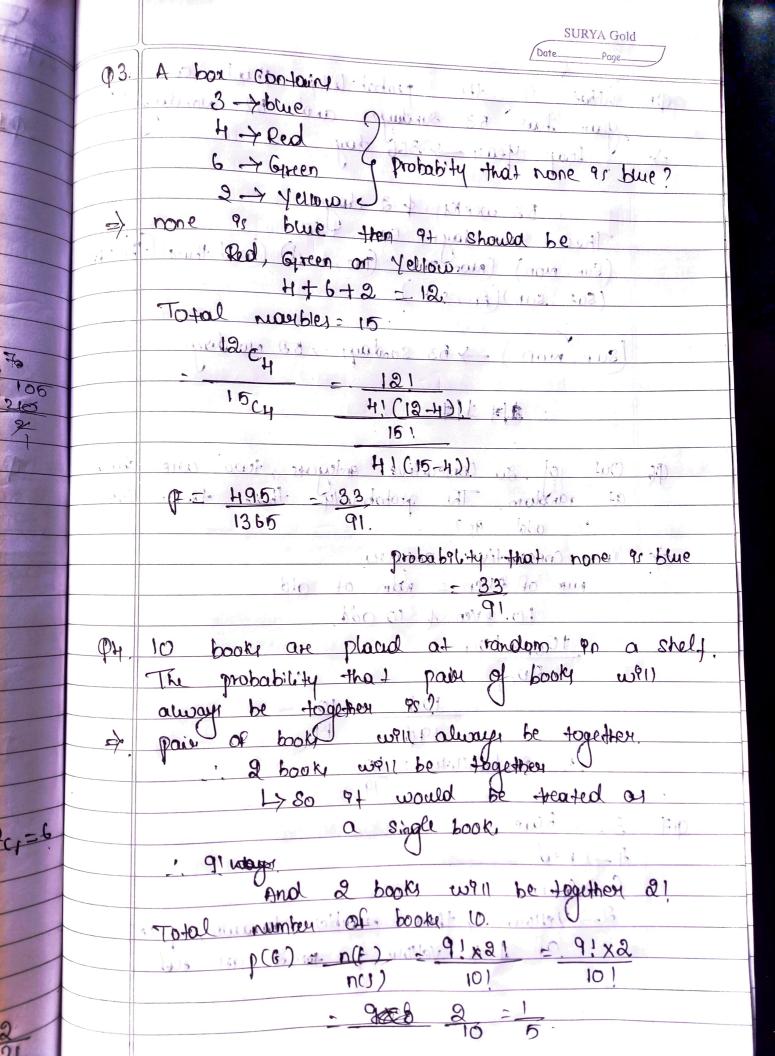
SURYA Gold Probability ? Q1. A box contains 3-> Blue moubles 4 -> Red marbles 6 -> Gyrcer maybles 600 2 -> Yellow moubles $\frac{6c_{2}}{15c_{2}}$ $\frac{3c_{1} + 6c_{1}}{15c_{2}}$ $\frac{3c_{1} + 6c_{1}}{15c_{2}}$ $\frac{3c_{1} + 6c_{1}}{15c_{2}}$ $\frac{15c_{2}}{15c_{2}}$ $\frac{15c_{2}}{105}$ $\frac{16c_{1}}{105}$ $\frac{16c_{1}}{35}$ $\frac{16c_{1}}{105}$ $\frac{16c_{2}}{35}$ probability that at least one or green

- 23

35 02 A box contains 3 -> Blue H-> Red 6 -> Green 2-> yellow marbles 3cg + 3c1 x 2c1 + 2cg 1509 1509 1509 309 =3, 30, x201=6 1500 = 105 $2c_2 = 1$ 3+1+6 probability of either blue or yellow= 21



OF Mot P1 the probability that a lies, year has 53 sinday and 52 worday?"

Leap year -> 366 day. 52 weeks & 3 day There two days can Uso (Sun, non) (non, Tue) (Tue, wel) (wed there) (-Pros. f. (sot, sun)(fr, sot) (Sur, man) -> 53 sunday , 58 manday = # 11400000 Ob Out of so consentive orthogras, two one chan at random. The grobability thou their sun 9 odd 917 In Consellative antique num of even = num of odd 10 even 4 10 odd 100,×100 ADOCAL TO THE STREET 100 man 101- 11 minio 19 19 1 19 1 19 1 10 - 11 19 19 19 19 07. 3 -> bue 4-) Red 6-1 Green: 2-) yellow, there noused duawn, pci) of 1 or yellow of the 2 are red

SURYA Gold 2c, x4c9 2 08-10 -> pearons working on project. H-> Graduater (3 are selected probability at least I graduate among and is applied their of 4c, x 6c3 + 4c2 x 6c, 4.4c3 5-13 manustrial 910 cound on 168614 4 × 50 + 6 × 6 + 24 MINIONAL MINE 1×2×3 180 1x2x3 15 11x3 16 20 5 20 + 36+2 - 158 11 9 10 1×2 F B to were casare to a white today. The and that here to in the 09 for a party Here are 5 couples 5 people choosen roundom probability of at light & coupley =) 5 couples -> 10 people suples $\rightarrow 10$ pays $\rightarrow 5$ couples and 1 payon $5c_2 \times 6c_1 \rightarrow 5$ couples and 1 payon $5c_2 \times 6c_1 \rightarrow 5$ 10ck

probability of latery ficket being a pried (P10. ticket 0.2.... 4 tickets purchased probability of winning a frize on at least one ticket ger probability of proced ticket = 0.9 probability of losing = 1-9 (win) '. p(lose) = 0.8 000 4 HOKOH = (0.8)4 = 0. 4096 p(at least, one)= @ 1- pC love In OH +ickets) = 1-0,4096 .. p(at least one wen)= 0:5904013 OIL Two boxes, One Contouring 39 -> real bally Other Containing 86 -) Green bully you are allowed to move the ball sew the boxes so that when a choice box at row f a ball at random from the Choosen box the probability of getting real ball maximused This maximum protability is (د 417 bon -> 1 real fall and box -> 38 red ball 4 26 green ball

p(first box) = -1/2

p Coeol ball from 112 box) = 1/2 * 1/2

PC real ball from and box) = 1 + 31 = 19
64

SURYA Gold P(picking red ball): + + 1 + 1 6 -> Red bally 012. & Blue baly p C three age real) = ? > Green bally 150 x 6011 x

60340 20stra 2907 15cg × 6c3 15C1 X 6C4 = 106x 20 + 15x 15 + 20349 2100 + 225+6 37 289 477 20349 323. 20349 5783 224 323