Solutions of works new 40. 2 (Class NO: 3) Permytation & combina for Total = 13; Bay = 9 & 91x11= Ryyma: 7 (i) exactly 3 girls: = 3 girls and 4 bays ways = 46x 964 = 4 x 9x8x7x62 4×126 (2) afteast 3 grols = Two casu: 9 Can I: 4 Bays 4 9x8x7 x1 + (an I = 504 + 84 = 588 way = Care I 4 Acases 4 Bays & 39125 = 9Cu x 43 = 504 5 Bays & & girls= 9C5 x 452 = \$\$56 6 By 2 1911= 96×401 (an I) 7 Bap 2 d gnl= 96 × 40 Reggind ways - 504 + 756+ 336+36= 1632 Am

Scrupon (W-5=2) PRC (3)
ON2 + term caras 52
Suit = 4 (dramord, cl45, hear, spade)
(Red Black)
face Karde 12 (Jack, Queen, King)
(i) Four cards au g the same surt.
I't means either all four cards and diramond
an also or hear or in
13(4 + 13(4 + 13(4 + 13/4 = (715) x4 = 2860 AMI
four cours belong to four different suit
It means 1 could of diamond, 1 of clus, 1 of heart and 1 y space
1 of hear ond 1 g spade
Regular ways = 13c, x 13c, x 13c, = 13 x 13 x 13 x 13 x 13 x 13 x 13c, = 28581 Aus
(3) all au fau conds
Ryynwyn= 12Cy = 495 Any
(4) Two au led and 2 au Black.
Regumen wagn= 2612 x 2612 = (26x25) x (26x25)
= 2- rx 22 1 - 1 - 1
(5) Cards and same colour: Two cases:
mans 4 sac end (or) 4 raices are black Ry-way- 26(4 + 26(4 = (14950) + (14950) = 29900 ANS
0 - 20(4 + 20(4 = (14950) + (14910) = 29900 HAS

Scruta Wisz (PEE) ON. 3 - tord= 15 player Ryy 11 Player (1) there is no les ficher Ref ways = 15(1) = 15(4 (Shortcut) = 1365 ANS (2) A particular player or always chosen: It means 1 person is alway blund Nav we have to select elemany 10 Fran lemain 14 persons Reynadwyn= 14 x 14(10 = 1× 14(4 (snort cut) = 1001 AM (3) A parkana player es river carden. It means we have to selver 11 payer, trom the lemany 14 players Ryan-1 wys= 14(1) = 14(3 (Short cut) = 364 AMS Ony - torul ball = 11 5 Red & 6 while Thru caus: 3 | Car I: 2 Red & 4 While 2 - 512×6(4 - 10×15 = 150

Soluter (W-52) PEL Cant 3 Red & 3 back balls = 503 x 603 = \$0x 20= 200 Cost 15 4 Red & 2 black bally -- SC4 x 6/2 - 5x 1r= 7r Regged wy [Cas I + can II + can II] - 150 + 200 + 75 = 425 AMS One 5 torul 18 pants outy when 5 points are collinear (1) no of Straym lines: Perwy = 18(2 - F(2 + 1) (COTTING POINTS always (More on land)

Termonog ways of overlapping / Repeated lines)

Selich 2 points act of 18 points) = 18×17 - 5×4 + 1 = 153-10+1 = 148/ Am (Minus (Minus) (2) No. of trangles - (Collinear points never term ony tranque) Regum vog 1813 - 50 = 816 - 10 = 806 AMS..

Solution (W-52) PEC

ONB + form playe = 17

5 Boules, & 12 Batimen

Reprine = 11

Noy wap of select, 4 backer, & 7 batimen

5(4 × 12(7) = 5(1 × 12c5 (Frontw))

= 5 × 12×11×10×9×8

5×4×3×2×1

= 5×792

= 3960 ANS