

















4 Property and PS ( Tasks) IV SWARK SIDE	
41 (ii) Basic assumption has been breaked with introduction of third probability, we note 3 outcomes not 2.  3 Binomial ro longer applies bross what was out 3 9 general with 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Volume = E[x] - E[x] <sup>2</sup> 415 - (145) <sup>2</sup> - 2.0475 points this is for  For a games it is 4x2.0475  III. If home adventage is 20% of above, and drows are at  described, what is the variance of the number of  points han by earn of the head	Total Confession of the Confes
here  Prun $0.54$ Prun $0.36$	V

6 This is how vortine = 61. The votance of the actual large point at the end of section was 234 compaed with theoretical varionce of 61 were all beams all of equal quarty and the results of motions were due to chame the Since 61/234 = 26, we conclude that (26%) a the varions in the premier league points is due to chance SD = No. 27.8 < spread of points according to model SD = N239 2 15.5 € total spread of points (any 78 explained by model). 4 ( iii) hore WIN 0.54 10.9x0.55 036 0.9x0.45 106 0.36 0 0 x 0 + 5 0.54 0.9 x 0.55 draw 0.1 Voi - Otherwise E(X)=0.36x3+0.1 E(x) = 054x3 +0-1 1.18. 1-72 E(x2) = 0.54x9+01 E(x2) = 0-36 X4 +0-1 = 3.34 110r = 3-34 - (118)2 Vor = 4-96 - (1-72)2 1.9476 2.0016 Varune botol ports n=4 15 1 (UA + VH) 4 (2.0016+1.9476) = 7.8984 pani











