

Assignment\_ 18.2 proportion of Let P1 = population of republican voters in 1st state. the proportion of republican voters in 2nd state. 9 proportion of repulstican voter in the sample C from the 1st state p2 = No. of votters sampled = n, (first state) = 100. 16 No. of voters sampled = no (2nd state) = 100. 5 mipi = 100 x 0.52 = 52. 100 × 0.48 = 48 n, (1-P1) = Similarly, n2P2 = 100 × 0.47 = A7  $n_2(1-P_2) = 100 \times 0.53 = 53.$ 2 Finding mean of the difference in sample proportion; 0.52 - 0.47 = 0.05M(P1-P2) = Finding the SD (standard deviation) of the difference P(1-P1) + P2(1-P2) (0.52)(0.48) + (0.47) x (0.53) 100 100 0.004987 = 0.0706 0.002496+ 0.002491 = the probability that p. < P2. Now we are required to find This is equivalent to finding the probability that PI PE < 0 = (0-0.05)/0.0706 ZP1-P2 = (x-MP1-P2)/Jd = -0.7082. Using Normal distribution Calculator we get that probability of हिन्दी विश्व की महान भाषा है। Z-score being -0.7082 or less -राहुल संस्कृत्यायन Ans : Answer is 024 0-24