CSCI 104 Probability Problems Blake Nagel Probability of getting picked for I question is is & for not getting = 10.10 Probability Describilities 105-each digit has 10 possibilities, 5 digits

Numbers 0-100 are excluded be can't have 2 odd digits and be even

Numbers 110-999 are possible so to calculate 5 and 5 even Numbers 1000 - 9,999 are possible so calculate Sold · Fold · Fotherdists Seven = 700 Numbers 10,000-99,999 are possible so calculate 5. Food odd other other even = 4,200 Total number of outcomes: 100+700+4,200 = 5,000 Probability of getting | number randomly: 5,000 - 05 For generating 8 numbers and 5 meeting criteria di $\frac{8!}{5!(8-5)!} \cdot (.05)^{3} (.15)^{3} = 1.5004 E-5$

A = At least 2 dice show ZT P(ANB)=P(A)-P(B) B= All dice same value P(Just 2 dice 24) = 32 (0.5)2 (.5) = 3/8
P(All 3 show 24) = 32 (.5)3 (.5) = 18 P(A) = 3/8 + 8 = 1/2 13 cards for 4 snits in a deck of 52 cards. Probability of winning With superstar = .7
Probability of winning W = .5 Prob sujerstar plays=1.75 P(win 4/5 games with superstar) = 54'.74.3 = .36 P(win 4/5 games W/ zuperstar) = 54'.55 = .156 Probability of winning regardless of superstar = .156.25+.36.75=.31 Probability of winning 1/5 with superstar: .36:.75/=.87