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[8]JAIME, Flor Elba & DAVID, Mar A, Anos~ De Olimpiadas Matem Aticas Para Primaria 1995 1999. [Five Years Of Primary School Mathematics Olympiads 1995 -1999.], Bo- 23th, 2024

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• E.g.: 3 5's And 2 K's. Answer: You Need To find A Systematic Way Of Counting: • Choose The Denomination For Which You Have Three Of A Kind: 13 Choices. • Choose The Three:  $C(4,3) = 4$  Choices • Choose The Denomination For Which You Have Two Of A Kind: 12 Choices • C 10th, 2024

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$\pi$  Of N Numbers. Let C Denote The Total Number Of Cycles In  $\pi$ . (a) (5 Pt) Find  $P(C = 1)$ , The Probability That A Random Permutation Consists Of A Single Cycle. Answer:  $P(C = 1) = \frac{\# \text{ Possible Cycles Of Length } N}{N!} = \frac{(n-1)!}{N!} = \frac{1}{N}$ . (b) (8 Pt) Find The Expected Number  $E[C]$  Of Cycles For  $N = 2$  And  $N = 3$ . Answer: Let  $(i_1 i_2 \dots i_k)$  Denote A Cycle ... 1th, 2024

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