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[8]AIME, Flor Elba & DAVID, Mar A, Anos~ De Olimpiadas Matematicas Para Primaria 1995-1999. [Five Years Of Primary School Mathematics Olympiads 1995-1999.], Bo- Feb 5th, 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 Mar 3th, 2024

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π Of N Numbers. Let C Denote The Total Number Of Cycles In π . (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 ... May 2th, 2024

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