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2003 AP® STATISTICS FREE-RESPONSE QUESTIONS 4 (II) Probability PA()()()()() = + - nB PA B PA B PA B PA B PB () = $nE()X = \mu x \sum x$ ip Var() $Xxp = -s x \sum ixi 2 \mu 2$ If X has a binomial distribution with parameters n and p, then: PX k n k () = $- pk 1 p nk - \mu x = np s x = -np p()1 \mu p = p s p pp() n = 1 -$

2003 AP Statistics Free-Response Ouestions

2003 AP® Statistics Free-Response Questions The following comments on the 2003 free-response questions for AP® Statistics were written by the Chief Reader, Roxy Peck of California Polytechnic State University in San Luis Obispo, California. They give an overview of each free-response question and of how students performed on the question,

Student Performance Q&A

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2003 AP Statistics Sample Student Responses Question 3

The 2003 AP® Statistics free-response questions cover several of the concepts in the current statistics standards for all pupils. Items contain questions about determining independence using probabilities to calculating expected values. Teachers also see ways to enhance those topics within their instruction. 3 Views 1 Download CCSS: Adaptable

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Free-Response Questions Scoring Statistics Question Mean Standard Deviation Number of Points Possible 1 5.72 3.53 12 2 3.11 2.18 7 3 2.42 2.1 7

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