

AP Statistics Exam
Question to Topic Correlation, 1997–2008

I. Exploring Data: Describing patterns and departures from patterns	Multiple Choice	Free Response		
A. Constructing and interpreting graphical displays of distributions of univariate data (dotplot, stemplot, histogram, cumulative frequency plot)	97: 30 02: 27 07: 15, 18, 24 08P: 1, 14	97: 1 98: 2 00: 3 01: 6 02: 1	05B: 1 06: 1 06B: 1 07B: 1 08B: 6	08P: 1
B. Summarizing distributions of univariate data	CD4: 5, 8 CD2: 2, 3, 4 97: 12, 17, 21, 25, 32 07: 1, 10, 12, 22 08P: 1, 7, 13, 18, 19, 31	97: 1 99: 4 01: 1 02B: 5 03: 1	05: 2 05B: 1 07: 1 07B: 1 08: 1	08P: 1
C. Comparing distributions of univariate data (dotplots, back-to-back stemplots, parallel boxplots)	CD2: 1 97: 10, 22 02: 14, 20 07: 7, 29 08P: 3	97: 1 00: 3 02B: 5 03: 1 04: 1	04B: 5 05: 1 06: 1 07: 1 08: 1	
D. Exploring bivariate data	CD2: 4 CD4: 1, 12, 14 97: 28, 31 02: 6, 17, 28, 31, 34 07: 10, 19, 40 08P: 10, 28	CD2: FR1, 4 97: 6 98: 2, 4 99: 1 00: 6 01: 6	02: 4 02B: 1 03B: 1 04B: 1 05: 3 05B: 5	06: 2 07: 6 07B: 4, 6 08: 4, 6 08B: 6 08P: 5, 6
E. Exploring categorical data	97: 14 08P: 36	99: 2 02B: 4		
II. Sampling and Experimentation: Planning and conducting a study	Multiple Choice	Free Response		
A. Overview of methods of data collection	CD2: 12 02: 1, 22 07: 2	99: 3 07: 5		
B. Planning and conducting surveys	CD4: 2, 9 97: 7, 27 02: 9, 15, 16 07: 9, 20 08P: 6, 11	04B: 2 05: 1, 5 08: 1		
C. Planning and conducting experiments	CD4: 16 CD2: 11, 13 97: 9, 18 02: 22, 25 07: 14, 31, 35 08P: 30, 32, 38	CD2: FR2 97: 2 98: 3 99: 3 00: 4 01: 4	02: 2 02B: 3 03: 4 03B: 3, 4 04: 2 05B: 3	06: 5 06B: 5 07: 2 07B: 3 08B: 4 08P: 2
D. Generalizability of results and types of conclusions that can be drawn from observational studies, experiments, and surveys	97: 8, 18 02: 22, 40 08P: 2	99: 3 00: 4 02: 6 03: 4	04: 3 04B: 6 05: 1 08P: 5	

CD2: = Course Description (Acorn Book) 2002–3 (Note: MC in CD2: were previous Sample MC on AP Central)

CD4 = Course Description (Acorn Book) 2004, 2005–6, 2007–8, 2009–10 (Note: FR in CD4 are same as 2001 Exam.)

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III. Anticipating Patterns: Exploring random phenomena using probability and simulation	Multiple Choice	Free Response		
A. Probability	CD4: 3, 10 CD2: 5 97: 3, 4, 11, 13, 19, 20, 23, 26 02: 4, 5, 7, 23, 32 07: 6, 11, 16, 36, 38 08P: 4, 21, 24	CD2: IT1 97: 3 98: 6 99: 4, 5 01: 2, 3 02B: 2	03: 3, 6 03B: 2, 5 04: 3, 4 05: 2 05B: 2, 6	06: 3 06B: 3, 6 07B: 2 08: 3 08P: 3, 6
B. Combining independent random variables	CD4: 7, 11 CD2: 6 07: 26	00: 6 02: 3 05B: 2	08: 4 08B: 5	
C. The normal distribution	CD4: 7 97: 12, 15, 32 02: 3, 10 07: 3, 8 08P: 9	98: 6 99: 4 00: 6 02: 3	03: 3 04B: 3 05B: 6 06: 3	06B: 3 07: 3 08B: 5
D. Sampling distributions	02: 18, 30, 36, 38 07: 11, 23, 33 08P: 16, 22, 26, 34, 40	98: 1 04B: 3 05: 2	06: 3, 6 07: 3 07B: 2	08B: 2 08P: 3, 6
IV. Statistical Inference: Estimating population parameters and testing hypotheses	Multiple Choice	Free Response		
A. Estimation (point estimators and confidence intervals) 8. Confidence interval for slope (see B.7 below.)	CD4: 6, 17, 18 CD2: 8, 9 97: 1, 16, 24, 33, 35 02: 8, 13, 21, 26, 29, 33, 37 07: 4, 21, 27, 30, 34, 39 08P: 15, 20, 23, 25, 29	CD2: FR3, IT2 97: 4 00: 2, 4, 6 01: 5 02: 6 02B: 4	03: 6 03B: 6 04: 6 04B: 4, 6 05: 5, 6 05B: 4	06: 4 06B: 2 07: 1, 4 07B: 5, 6 08B: 3
B. Tests of significance	CD4: 4, 6, 15 CD2: 10, 14 97: 2, 5, 6, 29 02: 2, 12, 24, 29, 35, 39 07: 5, 13, 25, 27, 28, 32, 37 08P: 5, 12, 17, 35, 37, 39	CD2: FR2, IT2 97: 4 98: 5 99: 6 00: 4 01: 5 02: 5, 6	02B: 6 03: 1, 2 03B: 3 04: 6 04B: 5, 6 05: 4 05B: 6	06: 4, 6 06B: 2, 4, 6 07: 4, 5 07B: 5, 6 08: 6 08B: 1, 4, 6 08P: 2
6. Chi-Square test for goodness of fit, homogeneity of proportions and independence (one-and two-way tables)	CD4: 13 02: 11, 19 07: 17 08P: 8, 27	CD2: IT2 99: 2 02: 6 03B: 2 04: 5	08: 5 08P: 4	
7. Inference for the slope of a least-squares regression line	02: 21 08P: 33	99: 6 01: 6 03: 5	05B: 6 06: 2 07: 6	08: 6 08P: 6

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