

AP Statistics

Past-Paper Exercise Sheets — Question Index

55 subtopics • 219 questions

1.6 Describing the Distribution of a Quantitative Variable

5 questions • data response $x4$, calculation

Source	Q	Type
2024	6	calculation
2023	1	data response
2021	1	data response
2019	1	data response
2016	1	data response

1.7 Summary Statistics for a Quantitative Variable

9 questions • data response $x6$, calculation $x2$, short answer

Source	Q	Type
2026	1	data response
2025	1	data response
2024	6	calculation
2021	1	data response
2019	1	data response
2019	6	data response
2018	5	calculation
2016	1	data response
2014	4	short answer

1.8 Graphical Representations of Summary Statistics

5 questions • data response $x5$

Source	Q	Type
2026	1	data response
2023	1	data response
2021	6	data response
2019	1	data response
2015	1	data response

1.9 Comparing Distributions of a Quantitative Variable

9 questions • data response $x8$, calculation

Source	Q	Type
2026	1	data response
2025	1	data response
2023	1	data response
2022	5	data response
2021	6	data response
2018	5	calculation
2017	4	data response
2016	6	data response
2015	1	data response

1.10 The Normal Distribution

6 questions • calculation x6

Source	Q	Type
2026	3	calculation
2023	6	calculation
2022	3	calculation
2019	5	calculation
2017	3	calculation
2014	3	calculation

2.1 Introducing Statistics: Are Variables Related?

2 questions • data response, calculation

Source	Q	Type
2022	1	data response
2017	1	calculation

2.2 Representing Two Categorical Variables

3 questions • data response x3

Source	Q	Type
2024	2	data response
2021	5	data response
2014	1	data response

2.3 Statistics for Two Categorical Variables

7 questions • data response x7

Source	Q	Type
2026	5	data response
2024	2	data response
2024	5	data response
2022	6	data response
2021	5	data response
2016	2	data response
2014	1	data response

2.4 Representing the Relationship Between Two Quantitative Variables

5 questions • data response x5

Source	Q	Type
2026	6	data response
2021	6	data response
2016	6	data response
2015	5	data response
2014	6	data response

2.5 Correlation

4 questions • data response x3, calculation

Source	Q	Type
2026	6	data response
2023	5	calculation
2021	6	data response
2016	6	data response

2.6 Linear Regression Models

6 questions • data response x5, calculation

Source	Q	Type
2026	6	data response
2023	5	calculation
2022	1	data response
2021	6	data response
2016	6	data response
2015	5	data response

2.7 Residuals

5 questions • data response x3, calculation x2

Source	Q	Type
2026	6	data response
2023	5	calculation
2022	1	data response
2017	1	calculation
2014	6	data response

2.8 Least Squares Regression

4 questions • data response x2, calculation x2

Source	Q	Type
2022	1	data response
2018	1	calculation
2017	1	calculation
2015	5	data response

2.9 Analyzing Departures from Linearity

4 questions • data response x3, calculation

Source	Q	Type
2021	6	data response
2018	1	calculation
2016	6	data response
2014	6	data response

3.1 Introducing Statistics: Do the Data We Collected Tell the Truth?

1 question • data response

Source	Q	Type
2021	6	data response

3.2 Introduction to Planning a Study

2 questions • short answer x2

Source	Q	Type
2024	3	short answer
2016	3	short answer

3.3 Random Sampling and Data Collection

4 questions • data response x3, short answer

Source	Q	Type
2025	2	data response
2021	2	short answer
2019	6	data response
2015	6	data response

3.4 Potential Problems with Sampling

7 questions • short answer x4, data response x2, calculation

Source	Q	Type
2025	2	data response
2024	3	short answer
2021	2	short answer
2018	2	calculation
2016	3	short answer
2015	6	data response
2014	4	short answer

3.5 Introduction to Experimental Design

7 questions • short answer x6, calculation

Source	Q	Type
2026	2	short answer
2024	3	short answer
2023	2	short answer
2022	2	short answer
2019	2	short answer
2017	6	calculation
2016	3	short answer

3.6 Selecting an Experimental Design

5 questions • short answer x4, calculation

Source	Q	Type
2026	2	short answer
2023	2	short answer
2022	2	short answer
2019	2	short answer
2017	6	calculation

3.7 Inference and Experiments

6 questions • short answer $x4$, data response, calculation

Source	Q	Type
2026	2	short answer
2024	3	short answer
2023	2	short answer
2022	6	data response
2021	2	short answer
2018	4	calculation

4.1 Introducing Statistics: Random and Non-Random Patterns?

1 question • calculation

Source	Q	Type
2014	2	calculation

4.2 Estimating Probabilities Using Simulation

2 questions • data response, calculation

Source	Q	Type
2022	5	data response
2014	2	calculation

4.3 Introduction to Probability

6 questions • calculation $x4$, data response $x2$

Source	Q	Type
2026	5	data response
2025	3	calculation
2024	5	data response
2019	3	calculation
2017	6	calculation
2014	2	calculation

4.4 Mutually Exclusive Events

1 question • data response

Source	Q	Type
2026	5	data response

4.5 Conditional Probability

8 questions • calculation x6, data response x2

Source	Q	Type
2026	5	data response
2024	5	data response
2023	3	calculation
2019	3	calculation
2018	3	calculation
2017	3	calculation
2017	6	calculation
2015	3	calculation

4.6 Independent Events and Unions of Events

7 questions • calculation x6, data response

Source	Q	Type
2026	5	data response
2025	3	calculation
2019	3	calculation
2017	3	calculation
2017	6	calculation
2016	4	calculation
2014	3	calculation

4.7 Introduction to Random Variables and Probability Distributions

3 questions • calculation x3

Source	Q	Type
2025	5	calculation
2023	3	calculation
2015	3	calculation

4.8 Mean and Standard Deviation of Random Variables

6 questions • calculation x6

Source	Q	Type
2025	5	calculation
2024	4	calculation
2023	3	calculation
2021	3	calculation
2019	5	calculation
2015	3	calculation

4.9 Combining Random Variables

1 question • calculation

Source	Q	Type
2023	3	calculation

4.10 Introduction to the Binomial Distribution

7 questions • calculation x7

Source	Q	Type
2026	3	calculation
2025	3	calculation
2022	3	calculation
2021	3	calculation
2019	3	calculation
2018	2	calculation
2018	3	calculation

4.11 Parameters for a Binomial Distribution

7 questions • calculation x7

Source	Q	Type
2026	3	calculation
2025	3	calculation
2022	3	calculation
2021	3	calculation
2019	3	calculation
2018	3	calculation
2016	4	calculation

4.12 The Geometric Distribution

3 questions • calculation x3

Source	Q	Type
2026	3	calculation
2024	4	calculation
2016	4	calculation

5.1 Introducing Statistics: Why Is My Sample Not Like Yours?

2 questions • calculation, data response

Source	Q	Type
2023	6	calculation
2019	6	data response

5.4 Biased and Unbiased Point Estimates

3 questions • data response x2, calculation

Source	Q	Type
2019	6	data response
2018	2	calculation
2015	6	data response

5.7 Sampling Distributions for Sample Means

4 questions • data response x2, calculation x2

Source	Q	Type
2026	6	data response
2023	6	calculation
2015	6	data response
2014	3	calculation

5.8 Sampling Distributions for Differences in Sample Means

1 question • data response

Source	Q	Type
2022	5	data response

6.2 Constructing a Confidence Interval for a Population Proportion

6 questions • calculation x4, data response x2

Source	Q	Type
2022	4	calculation
2019	6	data response
2018	2	calculation
2017	2	calculation
2016	5	data response
2015	2	calculation

6.3 Justifying a Claim Based on a Confidence Interval for a Population Proportion

4 questions • calculation x3, data response

Source	Q	Type
2022	4	calculation
2019	6	data response
2017	2	calculation
2015	2	calculation

6.4 Setting Up a Test for a Population Proportion

2 questions • short answer, calculation

Source	Q	Type
2025	4	short answer
2021	4	calculation

6.6 Concluding a Test for a Population Proportion

2 questions • short answer, calculation

Source	Q	Type
2025	4	short answer
2021	4	calculation

6.7 Potential Errors When Performing Tests

3 questions • calculation x3

Source	Q	Type
2025	5	calculation
2021	4	calculation
2018	6	calculation

6.8 Confidence Intervals for the Difference of Two Proportions

1 question • data response

Source	Q	Type
2016	5	data response

6.10 Setting Up a Test for the Difference of Two Population Proportions

3 questions • calculation x3

Source	Q	Type
2024	1	calculation
2019	4	calculation
2015	4	calculation

6.11 Carrying Out a Test for the Difference of Two Population Proportions

3 questions • calculation x3

Source	Q	Type
2024	1	calculation
2019	4	calculation
2015	4	calculation

7.2 Constructing a Confidence Interval for a Population Mean

1 question • calculation

Source	Q	Type
2024	6	calculation

7.3 Justifying a Claim About a Population Mean Based on a Confidence Interval

1 question • calculation

Source	Q	Type
2025	5	calculation

7.4 Setting Up a Test for a Population Mean

3 questions • calculation x3

Source	Q	Type
2025	5	calculation
2023	4	calculation
2018	6	calculation

7.5 Carrying Out a Test for a Population Mean

2 questions • calculation x2

Source	Q	Type
2023	4	calculation
2018	6	calculation

7.8 Setting Up a Test for the Difference of Two Population Means

5 questions • calculation x3, data response x2

Source	Q	Type
2026	4	calculation
2025	6	calculation
2022	5	data response
2018	4	calculation
2014	5	data response

7.9 Carrying Out a Test for the Difference of Two Population Means

4 questions • calculation x3, data response

Source	Q	Type
2026	4	calculation
2025	6	calculation
2018	4	calculation
2014	5	data response

8.5 Setting Up a Chi-Square Test for Homogeneity or Independence

5 questions • data response x5

Source	Q	Type
2026	5	data response
2024	5	data response
2021	5	data response
2017	5	data response
2016	2	data response

8.6 Carrying Out a Chi-Square Test for Homogeneity or Independence

4 questions • data response x4

Source	Q	Type
2024	5	data response
2017	5	data response
2016	2	data response
2014	1	data response

9.2 Confidence Intervals for the Slope of a Regression Model

1 question • data response

Source	Q	Type
2026	6	data response

9.5 Carrying Out a Test for the Slope of a Regression Model

1 question • calculation

Source	Q	Type
2023	5	calculation