

2026 AP Stats Exam Predictions 2026

#1 Exploring Data	#2 Collecting Data	#3 Probability
<p>Two-Variable Data DUFS</p> <ul style="list-style-type: none"> describe relationship context make prediction calculate/interpret residual interpret slope or r^2 $y - \hat{y}$ 	<p>Experimental Design</p> <ul style="list-style-type: none"> observational study vs. experiment treatment imposed explanatory + response variable random vs random sample assignment to generalize to show causation block design, advantage 	<ul style="list-style-type: none"> discrete random variable tree diagram joint probability $P(A \text{ and } B) = P(A) \cdot P(B A)$ conditional probability $P(A B) = \frac{P(\text{both})}{P(\text{given})} = \frac{P(A \text{ and } B)}{P(B)}$
#4 Inference	#5 Multi-focus	#6 Investigative Task
<p>χ^2 test</p> <ul style="list-style-type: none"> know all 3 (GOF, independence, homogeneity) follow-up analysis 	<ul style="list-style-type: none"> define binomial binomial mean + SD np $\sqrt{np(1-p)}$ normal approximation to binomial $np \geq 10$ + $n(1-p) \geq 10$ normal distribution calculation test conclusion for significance test 	<p>Simulation Based Inference</p> <ul style="list-style-type: none"> hypotheses conditions one fails! p-value from simulation conclusion for significance test Type I or Type II error

REMINDERS • Always include context • Always show work • Don't leave any blank