2024 AP Stats Exam Predictions 2024

#1 Exploring Data	#2 Collecting Data	#3 Probability
Two-variable data • describe relationship —DUFS +context • interpret slope • prediction or residual • add/remove outlier or inflential point	Sampling / Experiment • SRS, stratified, cluster, systematic samples • experimental units, treatments, response variable • random sample → to generalize to population vs random assignment → to show causation	• normal distribution calculation • binomial calculation → define random variable • tree diagram • conditional probability $P(A|B) = \dfrac{P(both)}{P(given)} = \dfrac{P(A \text{ and } B)}{P(B)}$
#4 Inference	**#5 Multi-focus**	**#6 Investigative Task**
two-sample z-test for $p_1 - p_2$ * use $\hat{p}_c$ to check Large Counts & in formula for SE.	One-variable data (two groups) • Describe/compare distributions SOCV + context • Confidence interval for μ or $\mu_1 - \mu_2$ • Use confidence interval to make conclusion	• Hypotheses • Normal distribution calculation • Normal condition not met. • Use simulation to estimate and interpret p-value • Make conclusion

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

Math Medic