Stat 515 — Practice Exam 1: Topic & Point Summary

#	Topic	Points
1	Population & Sample — target/sampled population, sampling unit, observation unit, response; coverage bias (flu vaccine telephone survey)	15
2	Descriptive Stats — variance comparison, mean vs. median, skewness	12
3	Standard Normal — finding z_0 and interval probability	6
4	Combinations / Counting (committee selection)	6
5	Normal Distribution probability (birth weights)	8
6	Discrete Distribution — E(X), Var(X), $P(X \geq k)$	15
7	Contingency Table — joint, union, conditional, independence	25
8	Binomial — mean, SD, exact probability	12
9	Poisson — single period, scaled mean, cumulative	16
10	Conditional Probability / Bayes' Theorem	10
	TOTAL (Q1–Q10 = 125 pts)	**125**