

IXL SUMMER BOOST PLAN - HONORS PROBABILITY AND STATISTICS

| Weeks | Skills |
|-----------|--|
| Day 1–5 | <p>Day 1: Calculate the probability of an event(s) – QRS, 74H</p> <p>Day 2: Counting principle – ZUV</p> <p>Day 3: Combinations and permutations – UAB</p> <p>Day 4: Finding probability using two-way frequency table – HGA</p> <p>Day 5: Identifying independent events – RTZ</p> |
| Day 6–10 | <p>Day 6: Independence and conditional probability – AJC</p> <p>Day 7: Find the probability using the addition rule – B9L</p> <p>Day 8: Identify discrete and continuous random variables – ETC</p> <p>Day 9: Expected value of random variables – 3K9, YFY</p> <p>Day 10: Identify biased samples – CH7</p> |
| Day 11–15 | <p>Day 11: Identify and outlier and describe the effect of removing it– TMV, DZ8</p> <p>Day 12: Experiment design – BKR, RV2</p> <p>Day 13: Outliers in scatterplots – XYX, ZXA</p> <p>Day 14: Interpret regression lines – UWX</p> <p>Day 15: Find probability using the normal distribution I & II – SSW, QCL</p> |
| Day 16–20 | <p>Day 16: Find probability using binomial distribution – 9UZ</p> <p>Day 17: Find z-values – 9KP</p> <p>Day 18: The Central Limit Theorem – FC7</p> <p>Day 19: Find confidence intervals for population means – 8G2</p> <p>Day 20: Find confidence intervals for population proportions – XWT</p> |