

# Fourth Quarter Assignments

## IB Precalculus

Tues., Mar. 5 §8.3	<b>Goals</b> Calculate probability of combined events, including conditional probability. <b>Assignment</b> §8.3 13, 24
W-Th, Mar. 6-7 §8.3	<b>Goals</b> Calculate probability of combined events, including conditional probability. <b>Assignment</b> <b>Probability practice</b> worksheet
Fri., Mar. 8 <b>Early release (B)</b> <b>End of third quarter</b>	<b>Goals</b> Solve problems from the Geometry and Trigonometry section of the IB Math A&A syllabus. <b>Assignment</b> Resiliency lessons; if time remains, fourth period can use it to work on the worksheet.
Mon., Mar. 18 Review	<b>Goals</b> Calculate probability in a variety of situations, using correct vocabulary and notation. <b>Assignment</b> Study for the test.
Tues., Mar. 19 <b>Test, Ch. 8, pt. 1</b>	<b>Goals</b> Calculate probability in a variety of situations, using correct vocabulary and notation. <b>Assignment</b> <b>Test, Probability, part 1</b>
W-Th, Mar. 20-21 <b>Test, Ch. 8, pt. 2; §12.1</b>	<b>Goals</b> Calculate probability in a variety of situations, using correct vocabulary and notation. Differentiate between continuous and discrete random variables. Use general probability distributions. <b>Vocabulary</b> random variable, discrete, continuous, probability distribution, expected value, fair game, variance of a probability distribution, standard deviation of a probability distribution <b>Assignment</b> <b>Test, Probability, part 2; §12.1</b> 1, 5, 6abc
Fri., Mar. 22 §12.1; Geom & Trig 2 ws due	<b>IB Geometry and Trig 2 worksheet due</b> <b>Goals</b> Use general probability distributions. <b>Assignment</b> §12.1 10, 14, 18 <b>IB Statistics worksheet assigned, due Mon., Apr. 15</b>
Mon., Mar. 25 §12.2	<b>Goals</b> Calculate probability using the binomial distribution. <b>Vocabulary</b> binomial distribution, binomial experiment <b>Assignment</b> §12.2 2abcd
Tues., Mar. 26 §12.2	<b>Goals</b> Calculate probability using the binomial distribution. <b>Assignment</b> §12.2 7, 8
W-Th, Mar. 27-28 §12.2	<b>Goals</b> Calculate probability using the binomial distribution. <b>Assignment</b> §12.2 2e, 5, 12, 13 <b>Note:</b> In #5, starting with part (c), the question is referring to the "with replacement" version of the scenario.
Mon., Apr. 1 §12.3	<b>Goals</b> Calculate probability using the normal distribution. <b>Vocabulary</b> probability density function, normal probability distribution, inverse normal distribution <b>Assignment</b> §12.3 1 Do #1 <i>without</i> a calculator, estimating as necessary.
Tues., Apr. 2 §12.3	<b>Goals</b> Calculate probability using the normal distribution. <b>Assignment</b> §12.3 3, 8, 20
W-Th, Apr. 3-4 §12.3	<b>Goals</b> Use z-scores to find missing means and standard deviations for normally distributed data. <b>Vocabulary</b> z-score, standard value, standard normal distribution <b>Assignment</b> §12.3 12, 15, 22
Fri., Apr. 5 Review	<b>Goals</b> Calculate probability using various distributions. <b>Assignment</b> Study for the test.
Mon., Apr. 8 Review	<b>Goals</b> Calculate probability using various distributions. <b>Assignment</b> Study for the test.
Tues., Apr. 9 <b>Test, Ch. 12, pt. 1</b>	<b>Goals</b> Calculate probability using various distributions. <b>Assignment</b> <b>Test, Probability Distributions, part 1</b>
W-Th, Apr. 10-11 <b>Test, Ch. 12, pt. 2; IA</b> scoring overview	<i>I will be out of town Thursday for A-Team.</i> <b>Goals</b> Calculate probability using various distributions. Understand the scoring criteria for IB Mathematics A&A internal assessment. <b>Assignment</b> <b>Test, Probability Distributions, part 2</b>
Fri., Apr. 12 <b>Early release (A)</b> Time for IB rev ws	<i>I will be out of town Friday for A-Team.</i> <b>Goals</b> Solve problems from the Statistics section of the IB Math A&A syllabus. <b>Assignment</b> Seventh period can use this time to work on the worksheet.
Mon., Apr. 15 <b>Vocab posttest, IA</b> scoring; Stats ws due	<b>IB Statistics worksheet due</b> <b>Goals</b> Demonstrate mastery of precalculus vocabulary. Correctly assess IB Mathematics A&A explorations according to the assessment criteria. <b>Assignment</b> <b>Vocabulary posttest</b> <b>IB Probability worksheet assigned, due Wed./Thurs., Apr. 24-25</b>
Tues., Apr. 16 IA scoring 1	<b>Goals</b> Correctly assess IB Mathematics A&A explorations according to the assessment criteria. <b>Assignment</b> Finish scoring the first three sample explorations by Monday night, Apr. 22.
W-Th, Apr. 17-18 Proofs	<b>Goals</b> Demonstrate an understanding of the nature of proof and an ability to prove simple statements. <b>Assignment</b> <b>Proof</b> worksheet, due on Wed./Thurs., Apr. 24-25
Fri., Apr. 19 IA scoring, proofs	<b>Goals</b> Correctly assess IB Mathematics A&A explorations according to the assessment criteria. Demonstrate an understanding of the nature of proof and an ability to prove simple statements. <b>Assignment</b> Finish scoring the first three sample explorations; complete the proofs worksheet.
Mon., Apr. 22 IA scoring time	<b>The first set of scored papers must be done by midnight at the end of the day Monday.</b> <b>Goals</b> Correctly assess IB Mathematics A&A explorations according to the assessment criteria. <b>Assignment</b> Finish scoring the first three sample explorations; complete the proofs worksheet.

Tues., Apr. 23 IA scoring 2	<b>Goals</b> Correctly assess IB Mathematics A&A explorations according to the assessment criteria. <b>Assignment</b> Score the last three sample explorations, due Thursday evening, May 2.
W-Th, Apr. 24-25 More IA scoring	<b>IB Probability worksheet due</b> <b>Goals</b> Correctly assess IB Mathematics A&A explorations according to the assessment criteria. <b>Assignment</b> Score the last three sample explorations, due Thursday evening, May 2.
Fri., Apr. 26 <b>Early release (B)</b> Time for scoring	<b>Goals</b> Correctly assess IB Mathematics A&A explorations according to the assessment criteria. <b>Assignment</b> Fourth period may spend time working on the second scoring assignment.
Mon., Apr. 29 Plagiarism certification, exploration plan	<b>Goals</b> Write an acceptable plan for the mathematical exploration. Demonstrate your ability to avoid plagiarism. <b>Assignment</b> Exploration plan due online May 24; plagiarism certification must be completed by May 14
Tues., Apr. 30 Exploration plan	<b>Goals</b> Write an acceptable plan for the mathematical exploration. <b>Assignment</b> Exploration plan due online May 24
W-Th, May 1-2 Practice second semester exam	<b>Goals</b> Assess your readiness for the second semester exam. <b>Assignment</b> <b>Second semester review worksheet</b> given in class as a practice test; corrected version is due Mon., May 20 — <b>MY CALCULATORS WILL BE AT EXAMS; YOU MUST BRING YOUR OWN.</b> —
For the next couple of weeks, when you are in class, there will be a list of things coming due to work on. The plagiarism certification must be completed by May 14, the corrected practice exam by May 20, the exploration plan by May 24, the advice essay to next year's precalculus students by May 24. When you are out for an AP exam, there is nothing special to make up beyond that list of tasks.	
Fri., May 3 Exploration plan, practice exam corrections	<b>Goals</b> Write an acceptable plan for the mathematical exploration. Prepare for the second semester exam. <b>Assignment</b> Exploration plan due online May 24; corrected practice exam due May 20
Mon., May 6 IB and AP exams	<i>pm: AP Chemistry</i>
Tues., May 7 IB and AP exams	<i>am: AP Human Geography</i> <i>pm: AP Seminar, AP Statistics</i>
W-Th, May 8-9 IB and AP exams	<i>Wednesday: am: AP English Literature; pm: AP Computer Science A</i>
Fri., May 10 IB and AP exams	<i>am: APUSH</i>
Mon., May 13 IB and AP exams	<i>Work on the list of things coming due.</i>
Tues., May 14 IB and AP exams	<b>Plagiarism certification must be sent to me directly from IU by the end of the day Tuesday.</b>
W-Th, May 15-16 IB and AP exams	<i>Wednesday: am: AP World; pm: IB World Religions, AP Comp Sci Principles</i> <i>Thursday: am: IB World Religions; pm: AP Biology</i>
Fri., May 17 IB and AP exams	<i>Work on the list of things coming due.</i>
Mon., May 20 Review; practice exam corrections due	<b>Corrected practice exam is due at the beginning of class today.</b> <b>Goals</b> Demonstrate mastery of the non-calculus parts of the IB Math A&A SL curriculum. <b>Assignment</b> Write the reflective essay; study for the semester exam
Tues., May 21 Review	<b>Goals</b> Demonstrate mastery of the non-calculus parts of the IB Math A&A SL curriculum. <b>Assignment</b> Write the reflective essay; study for the semester exam
W-Th, May 22-23 Second semester exam	<b>Goals</b> Demonstrate mastery of the non-calculus parts of the IB Math A&A SL curriculum. <b>Assignment</b> <b>Second Semester Exam</b> ; write the essay <b>Essays are due on online by Friday evening.</b>
Fri., May 24 Exam debrief; essay due; explorations discussion	<b>Both the exploration plan and the advice to next year's precalculus students must be submitted by the end of the calendar day Friday.</b> <b>Goals</b> Communicate your exploration topic and advise others on theirs. <b>Assignment</b> Exploration discussion; you will tell your classmates about your plan, answer questions about it, and listen to thoughtful suggestions.
Tues., May 28 Explorations discussion	<b>Goals</b> Communicate your exploration topic and advise others on theirs. <b>Assignment</b> Exploration discussion; you will tell your classmates about your plan, answer questions about it, and listen to thoughtful suggestions.
W-Th, May 29-30 <b>Thurs early release (B), end of semester</b> Explorations discussion	<b>Goals</b> Communicate your exploration topic and advise others on theirs. <b>Assignment</b> Exploration discussion; you will tell your classmates about your plan, answer questions about it, and listen to thoughtful suggestions.