

# A little about this class.

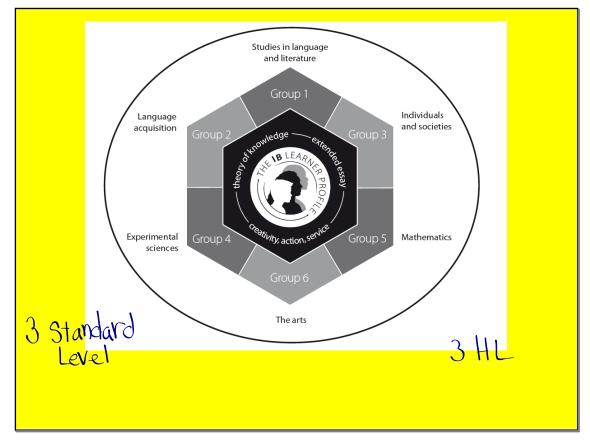
Some of the Syllabus

### Course Objectives:

The primary purpose of this single trimester class is to learn the content associated with the IB Math Studies curriculum and prepare you for the *IB Mathematical Studies SL* exams given in May 2020.

### **IB Math Day 1 Notes**

#### September 04, 2019



Grade 11 and 12 students trying for an *IB Math Studies Certificate* or the full *IB Diploma* this year will take your exam in **May 2020**. These students should plan on attending review sessions in April just prior to the exams.

Any IB student earning a score of 5, 6, or 7 will receive college credit for Math 105 at all Oregon universities. Credit for other colleges varies. The breakdown in scoring for the **IB Math Studies Score** is as follows:

> 80% Exams in May 20% IB Math Project (done in this class)

Syllabus component

All topics are compulsory. Students must study all the sub-topics in each of the topics in the syllabus as listed in the *Mathematical studies SL guide*. Students are also required to be familiar with the topics listed as prior learning.

Topic 1-Number and algebra

Topic 2—Descriptive statistics

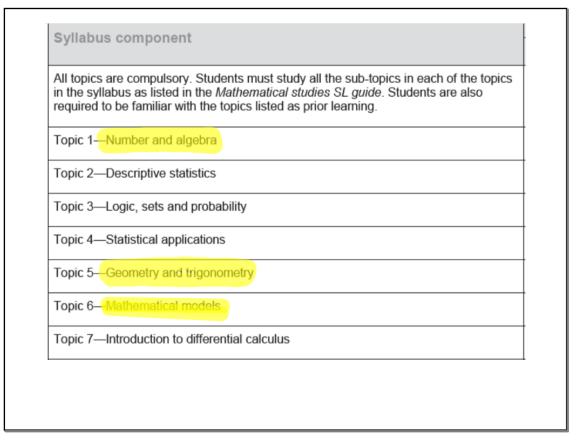
Topic 3-Logic, sets and probability

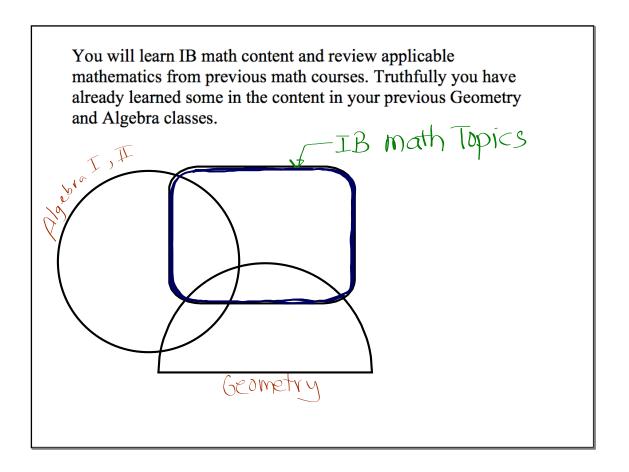
Topic 4-Statistical applications

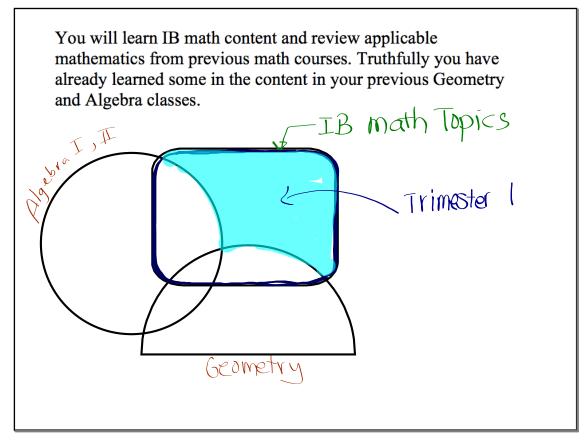
Topic 5—Geometry and trigonometry

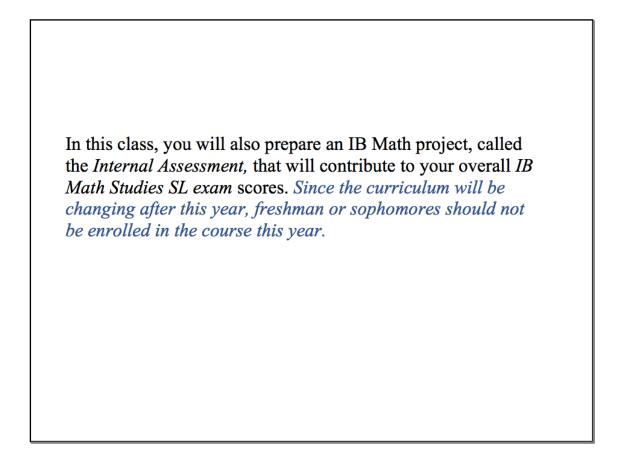
Topic 6—Mathematical models

Topic 7—Introduction to differential calculus









### Course Description/Content:

Since the Internal Assessment requires a lot of statistics, that content will be covered first.

- 1. Descriptive Statistics including Normal Distribution.
- 2. Two variable Statistics (including Correlation, LSRL, Chi-Square Test of Independence)
- 3. Numerical Trigonometry
- 4. Sets/Venn Diagrams/Probability
- 5. Sequences, Series, Compound Interest, Currency Exchange
- 6. Introductory/Basic Differential Calculus
- 7. Logic
- 8. IB Math **Exam** Preparation
- 9. IB Math **Project** Preparation

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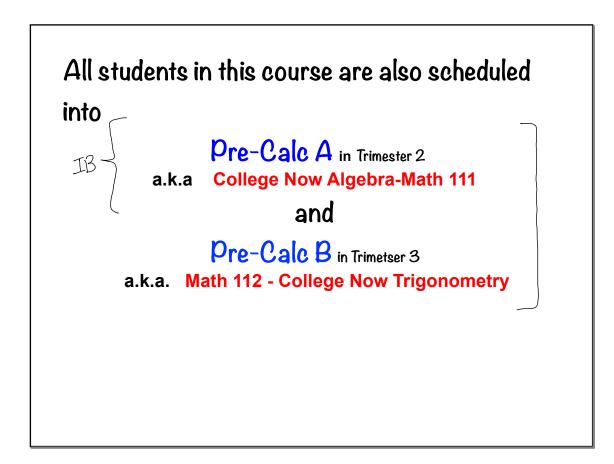
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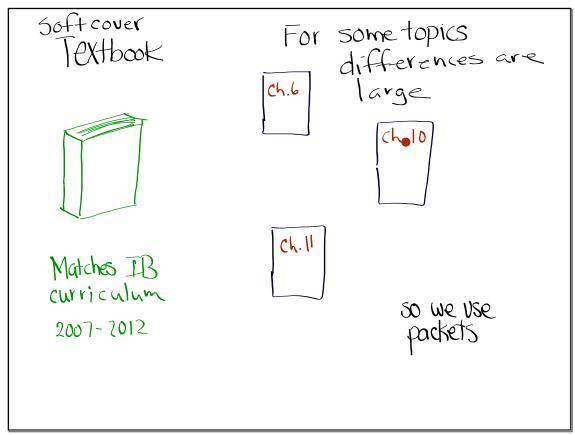


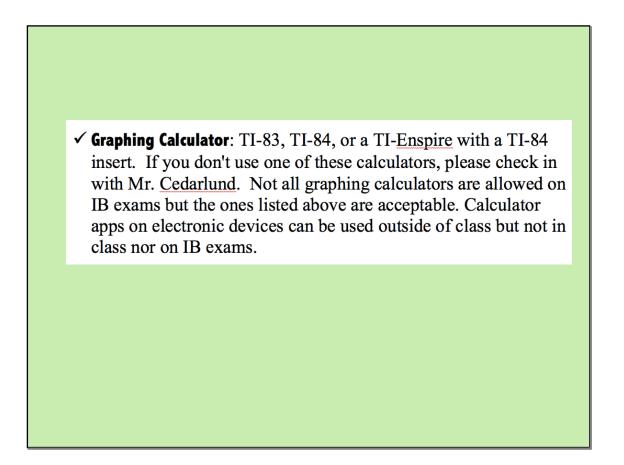
In order to qualify to take the IB Math Studies Exam at Sheldon you must complete this course and at least Pre-Calc A (same as College Now Algebra-Math 111). All students in this course should be already scheduled into Pre-Calc A in Trimester 2 and possibly Pre-Calc B in Trimester 3 (same as College Now Trigonometry -Math 112).

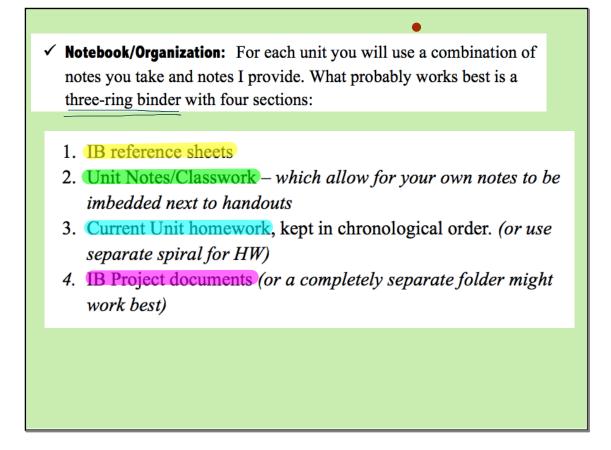
You should definitely take Pre-Calc B if you plan to take Calculus sometime in your future or if there is a possibility of you will end up in a STEM major in college. *There is a fee to take the IB Math Studies Exam.* 

### **Materials Required**

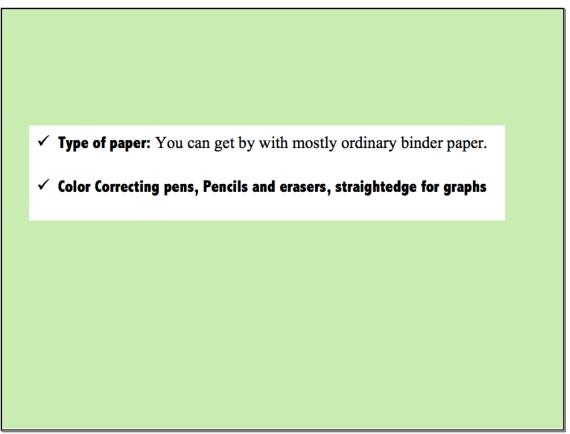
- ✓ Textbooks and Materials
  - o Mathematical Studies <u>SL (Haese</u> & Harris Publications)
  - Handouts given in class
  - o Access to Google Docs and Google Sheets
  - 0 IB Reference Sheets and Documents

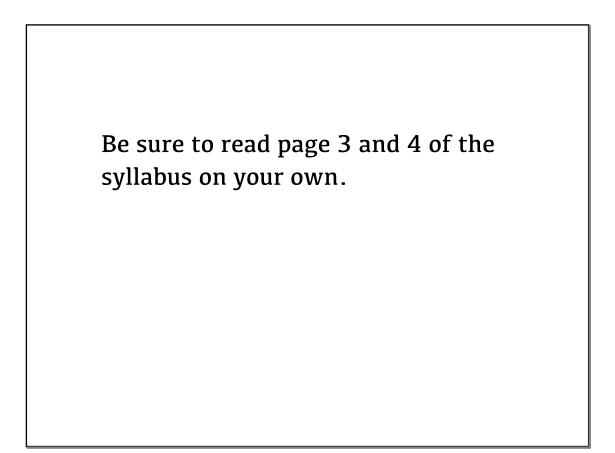






IB<sup>moth</sup> Formula Sheet } Always have IB<sup>moth</sup> Terminuology in class, etc

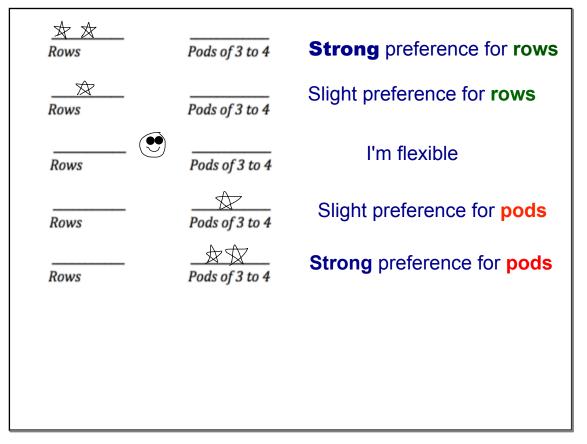


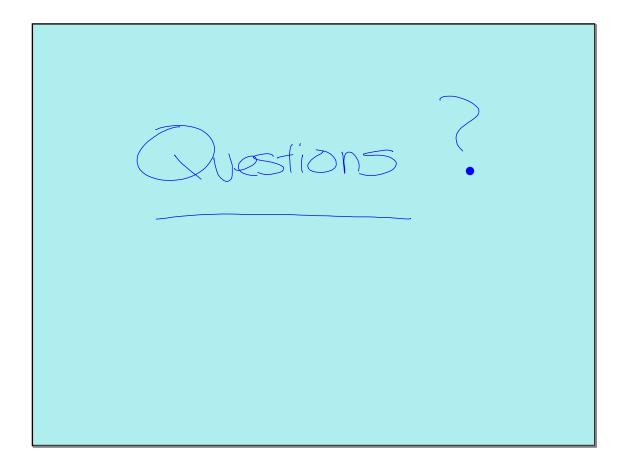


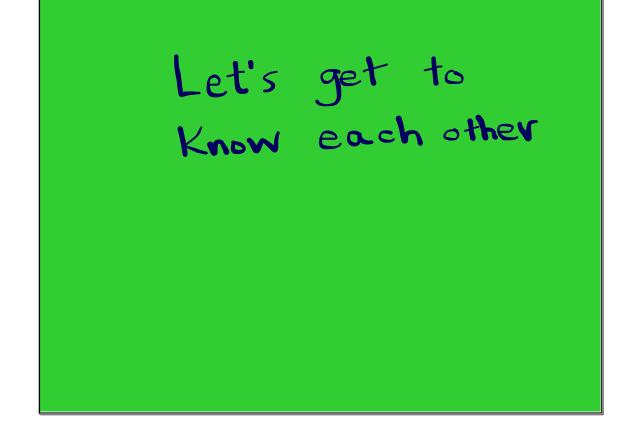
# The seats you have are only for the next day or two

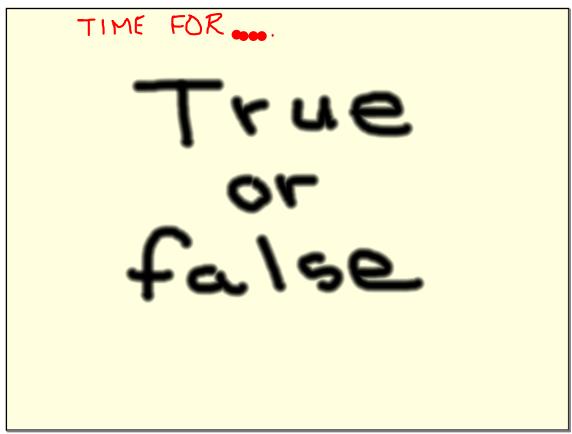
# Fill out the seating preference form

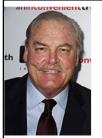
First	Last Name Per	
Rows	Pods of 3 to 4	
Sit near front? (please no requests	Other? to sit by certain people)	











Stacy Keach - IMDb imdb.com



Stacy Keach List of Movie... tvguide.com



Stacy Keach Posters and P... moviestore.com





Stacy Keach - The Movie Databas...



Stacy Keach - Wikipedia en.wikipedia.org



Stacy Keach - Movies, Pho...



Stacy Keach - MovieActors.com



Stacy Keach - Wikipedia



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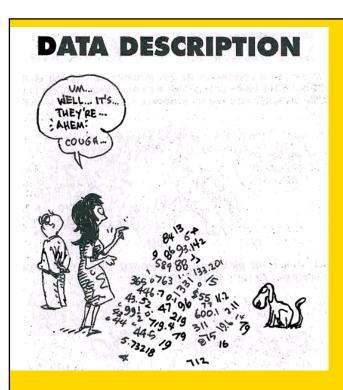


### **IB Math Day 1 Notes**



## <u>Your turn</u>

- Each will create 4 statements about yourself
- some true, some false
- When everyone is ready in your group, go around one at a time and tell everyone your statements.
- Have them guess T or F

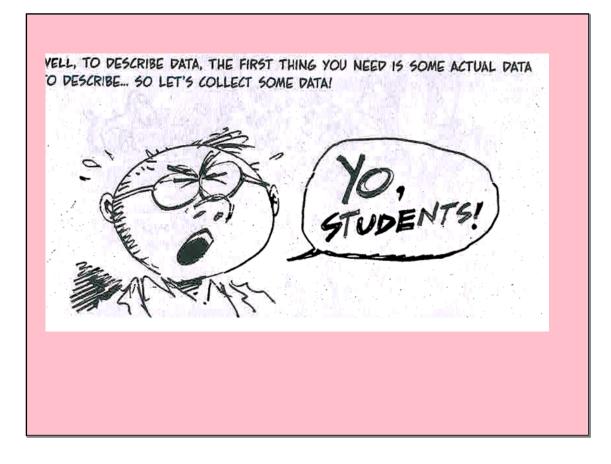


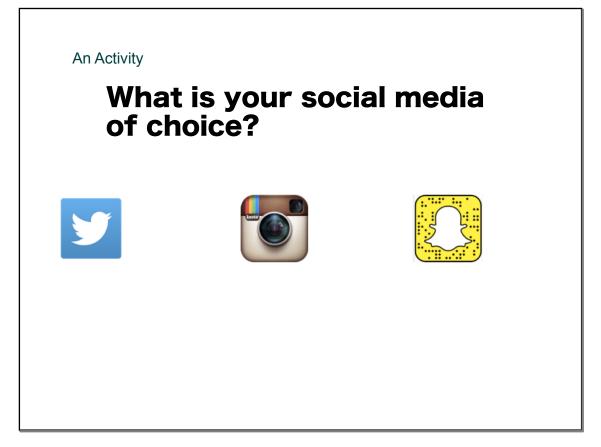
What is Statistics? A look to Sweden

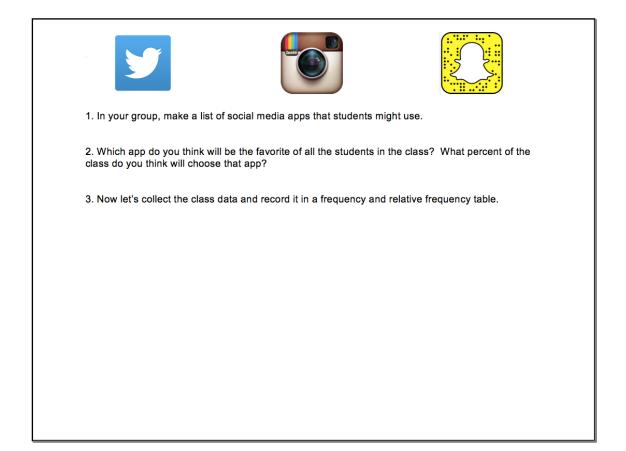
But there are many types of data.

You will learn about those types on your first assignment which due Friday.



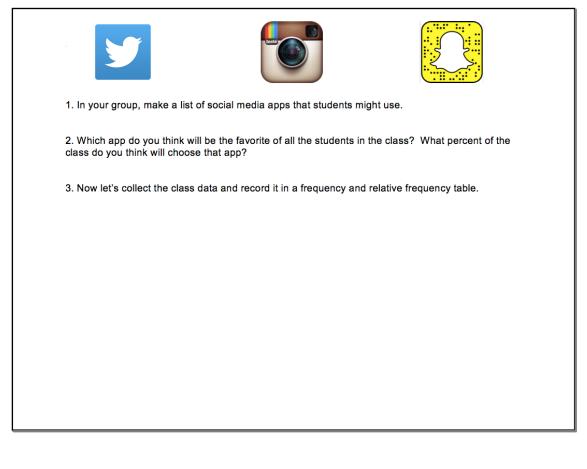






### **IB Math Day 1 Notes**

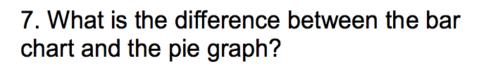
### September 04, 2019



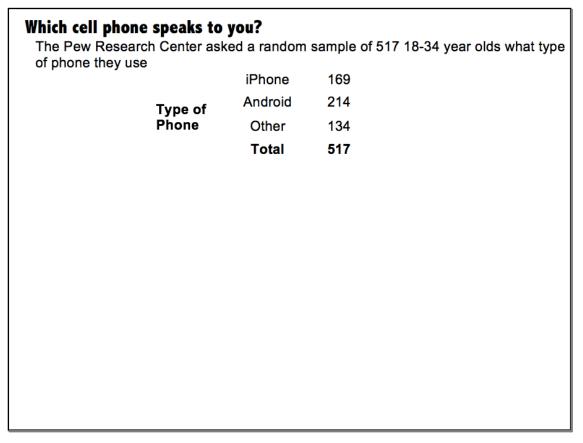
4. Now we'll create a bar chart and a pie graph. Go to <u>stapplet.com/</u> Then select <u>1 Categorical Variable, Single Group</u>

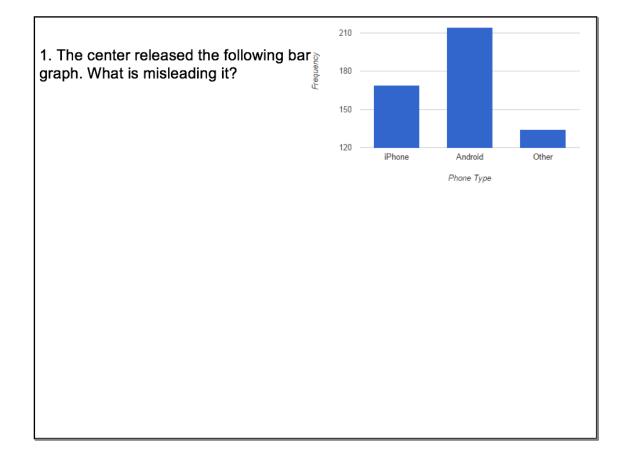
5. Sketch the bar chart below. graph below.

6. Sketch the pie



Summary: Displaying Categorical Data		
Bar Charts and Pie Charts:		
Bar Charts:	Pie Charts	





2. Make a relative frequency bar chart of the table to display the distribution of type of phone among the 517 18-34 year olds in the sample.

Type of Phone	iPhone	169	
	Android	214	
	Other	134	
	Total	517	

3. Use your relative frequencies to sketch a pie graph for the data.

# Assignment #1:

# A two day assignment

Should be finished before class this Friday, but try to do Parts 1 and 2 tonight.

Follow the instructions on the handout.

You'll need the Ch. 6 Packet

