

11.1 IB Math - Unit 8 Descriptive Statistics

Bronx Early College Academy

Christopher J. Huson PhD

6 May 2019

8.1 Introduction and definitions Monday 6 May

8.2 Deltamath summary statistics, Tuesday 6 May

8.3 Central tendency Wednesday 8 May

8.4 Central tendency Thursday 9 May

8.5 Standard deviation Monday 12 May

GQ: How do we determine the features of a population?

HSS.ID.A.1-4 Summarize, represent, and interpret data on a single measurement variable

8.1 Monday 6 May

Do Now: Skills Check p. 254

Lesson: Qualitative & quantitative data, graphing, definitions
p.255-9

Homework: Exercises 8B p. 259

GQ: How do we determine the features of a population?

CCSS: HSS.ID.A.1-4 Summarize, represent, and interpret data on a single measurement variable

8.2 Tuesday 7 May

Deltamath probability practice

Homework: Complete Deltamath exercises

GQ: How do we determine the “center” of a population?

HSS.ID.A.1-4 Summarize, represent, and interpret data on a single measurement variable

8.3 Wednesday 8 May

Do Now: Sequences review

1. An arithmetic sequence begins 4, k , 10, Find k .
2. Find the value of the 8th term of the sequence.
3. The sum of the first n terms in the sequence is 589. Find n .

Lesson: Measures of central tendency: mean, median, & mode p.
260-7

Using class interval midpoints for frequency table calculations.

Homework: Exercises 8C, 8D, 8E. Select an appropriate number of problems.

GQ: How do we determine the “spread” of a population?

HSS.ID.A.1-4 Summarize, represent, and interpret data on a single measurement variable

8.4 Thursday 9 May

Do Now: Enter the frequency table data shown in a calculator.
Answer the questions both with the calculator and by hand.

Value	0	1	2	3	4
Freq.	2	6	4	2	1

1. How many data are there ($n = ?$)? List them.
2. Write down the mode. Find the median and mean.
3. Sketch a histogram to represent the data.

Lesson: 8.4 Measures of dispersion: max, min, range, quartiles, IQR, & 5-figure summary p. 267-271

Using class interval midpoints for frequency table calculations.

Cumulative distributions p. 271-2

Homework: Exercises 8F, 270-1 (8G).

GQ: How do we quantify the dispersion of a population?

HSS.ID.A.1-4 Summarize, represent, and interpret data on a single measurement variable

8.5 Monday 12 May

Do Now: The frequency table represents the scores of an IB class out of a 90-point exam.

Score	$10 \leq x < 30$	$30 \leq x < 50$	$50 \leq x < 70$	$70 \leq x < 90$
Freq.	4	6	3	2

1. How many students are there?
2. Write down the modal class.
3. Estimate the median, quartiles, and the mean.
4. Sketch a histogram to represent the data.

Cumulative distributions, #6 p. 275

Lesson: 8.6 Standard deviation p. 276-281

Homework: Exercises 8H, 279-280.