

Algebra 1B

Date:

7.5 Frequency Tables and Histograms

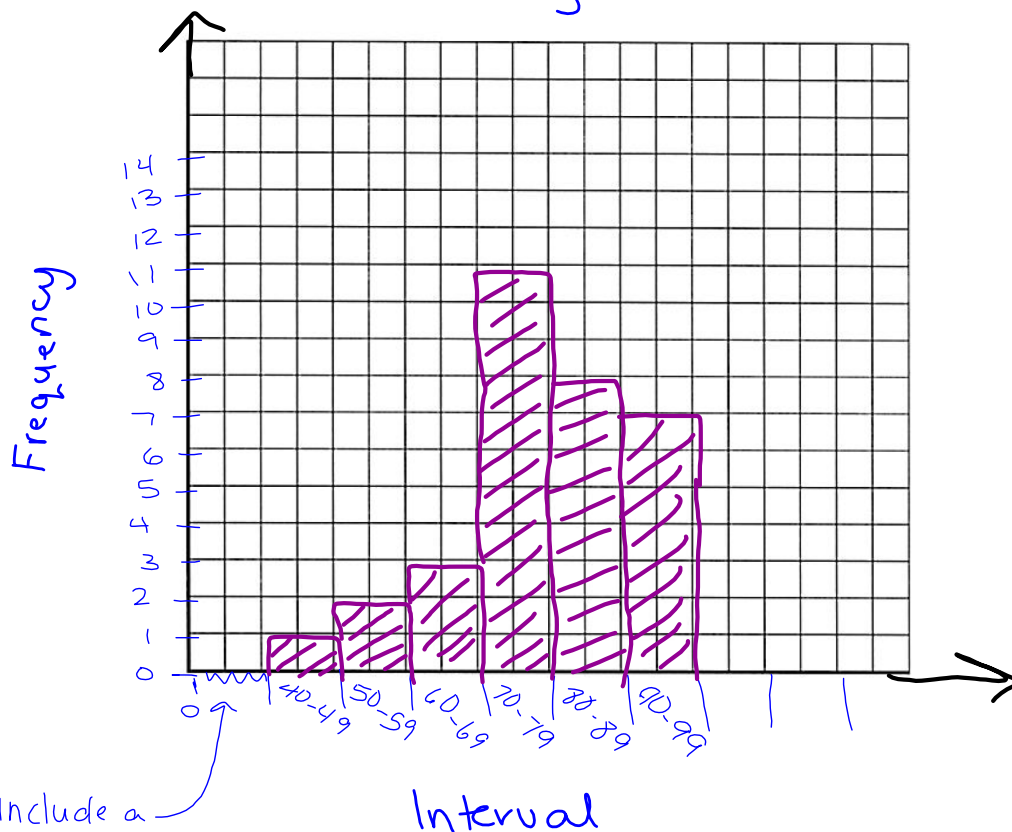
1. A teacher marked a set of 32 test papers, the grades or scores earned by the students are listed below. Organize the data in the table below and construct a frequency histogram.

GRADES
90, 85, 74, 86,
65, 62, 99, 95,
77, 82, 50, 83,
77, 93, 73, 72,
98, 66, 45, 99,
50, 89, 78, 70,
75, 95, 80, 78,
83, 81, 72, 75

Interval	Tally	Frequency
40 - 49		1
50 - 59		2
60 - 69		3
70 - 79		11
80 - 89		8
90 - 99		7

32 Total

Histogram



Include a break interval b/c we do not start at 0!

2. The table below shows the distribution of scores that 20 students received on a classroom test.

a) Complete the cumulative frequency table below, using the data given in the frequency table.

Interval	Frequency
65-69	3
60-64	4
55-59	7
50-54	4
45-49	2

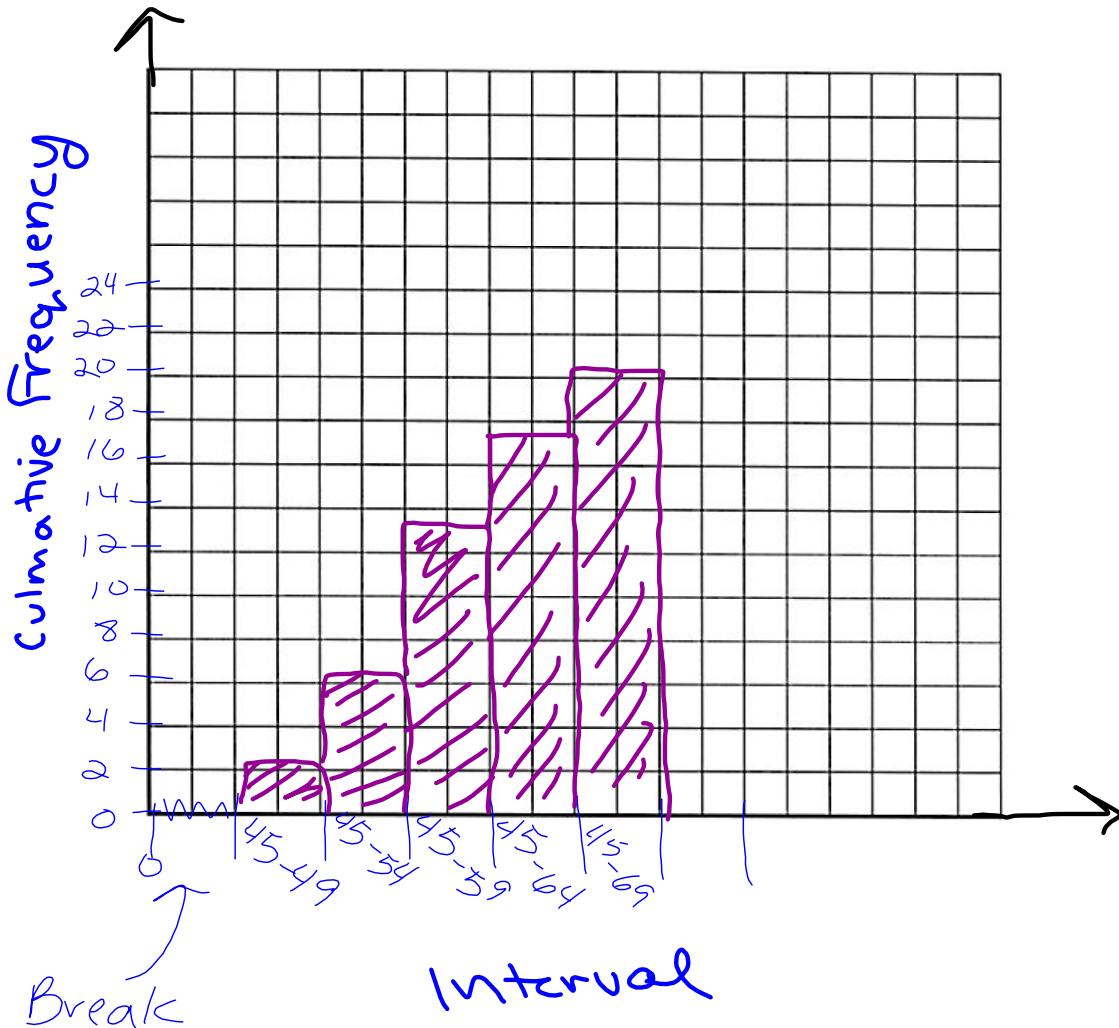
Interval	Cumulative Frequency
45-69	20
45-64	17
45-59	13
45-54	6
45-49	2

should end w/ number of data

adding on an interval

b) Construct a cumulative frequency histogram using the table completed in part a.

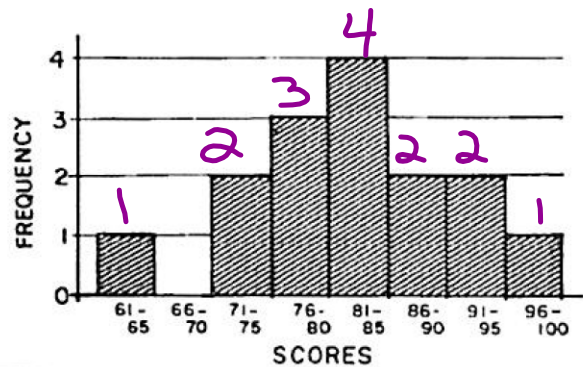
Histogram



3. The graph below shows the distribution of scores on a math test. How many students took the math test?

$$1 + 2 + 3 + 4 + 2 + 2 + 1$$

15 Students



4. The cumulative frequency table below shows the distribution of scores on a math test. How many scores were greater than 90?

Interval	Cumulative Frequency
61-70	4
61-80	10
61-90	12
61-100	16

$$61-90 \rightarrow 12.$$

$$61-100 \rightarrow 16$$

From 90% to 100%. we

increased by 4 scores

$$16 - 12 = 4$$

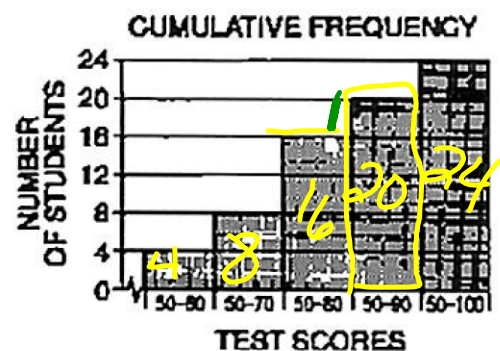
4 scores

5. The cumulative frequency histogram shows the scores that 24 students received on an English test. How many students had scores between 81 and 90?

$$50-80 \rightarrow 16$$

$$50-90 \rightarrow 20$$

$$20 - 16 = 4 \text{ scores}$$



6. The accompanying histogram shows the heights of the students in Adam's health class. What is the total number of students in the class?

$$2 + 4 + 5 + 4 + 1$$

16 students

