

Name key
8A: Algebra 1

Date _____
Period _____

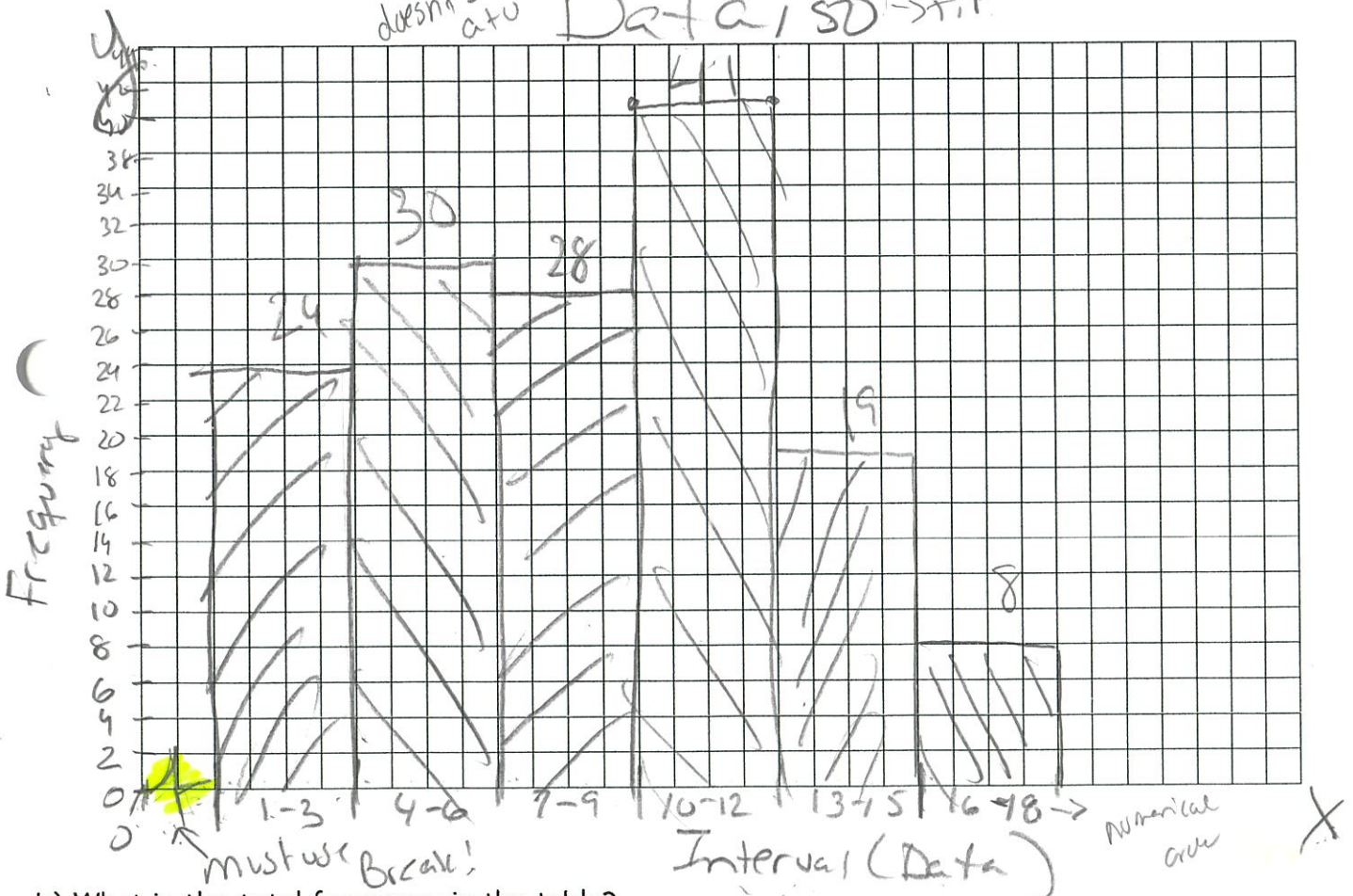
Homework

1) a) Construct a frequency histogram for the grouped data.

Interval	Frequency
1-3	24
4-6	30
7-9	28
10-12	41
13-15	19
16-18	8

Must use a Break doesn't start at 0

Data / SD -> F.F



b) What is the total frequency in the table?

150

c) What interval contains the greatest frequency? (modal interval)

10-12

d) The number of data values reported for the interval 4-6 is what percent of the total number of data values?

$\frac{30}{150} = .20 = 20\%$

e) How many data values from 10 through 18 were reported?

$41 + 19 + 8 = 68$

2) Towering Ted McGurn is the star of the school's basketball team. The number of points scored by Ted in his last 20 games are as follows:

36, 32, 28, 30, 33, 36, 24, 33, 29, 30, 30, 25, 34, 36, 34, 31, 36, 29, 30, 34

a) Copy and complete the table to find the frequency for each interval

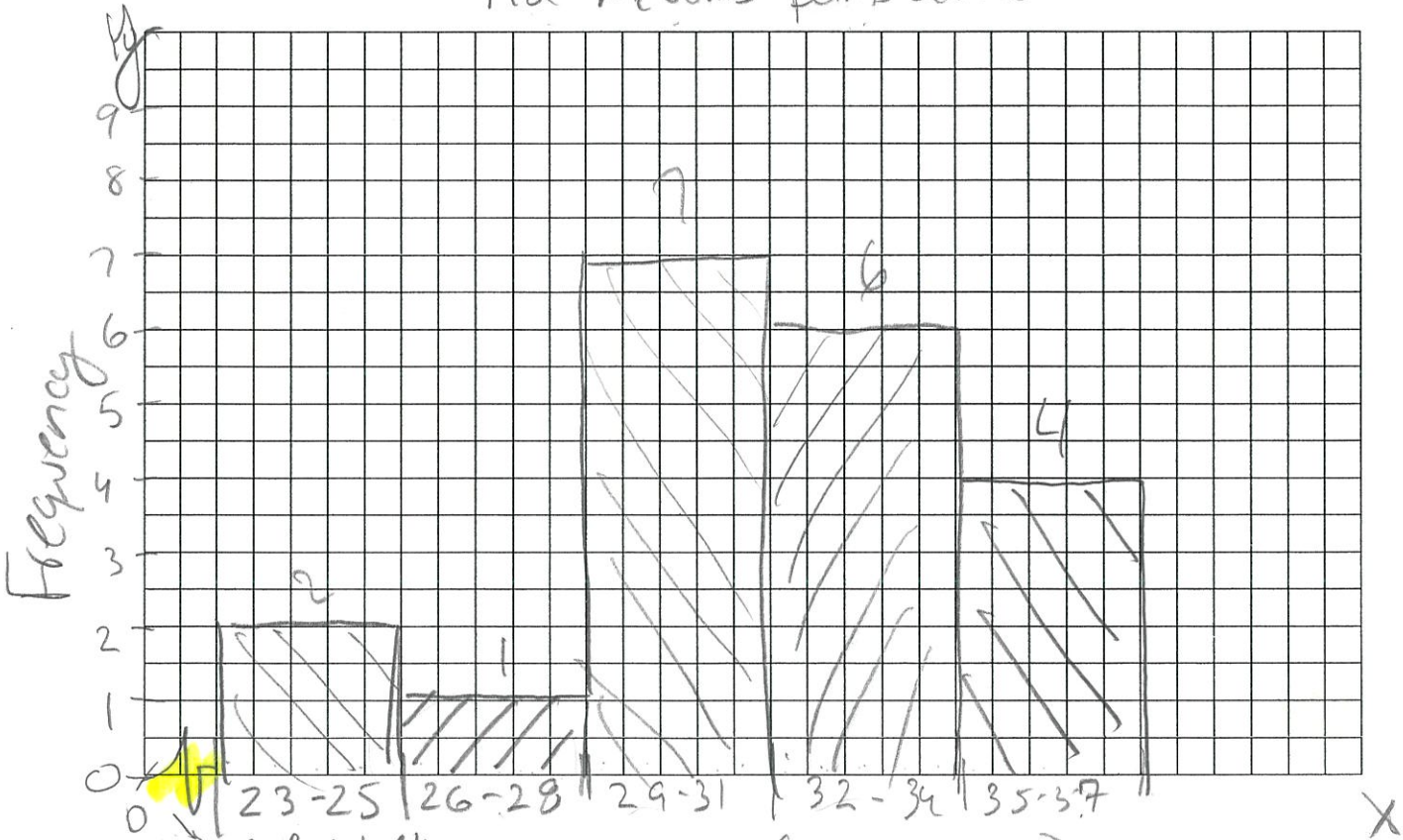
Interval	Tally	Frequency
35-37		4
32-34		6
29-31		7
26-28		1
23-25		2

Need a break interval didn't start at 0

TIF 20

b) Construct a frequency histogram based on the data found in part a

Ted McGurn's points scored



c) Which interval contains the greatest frequency? 29-31 (modal interval)

d) In how many games did Ted score 32 or more points?

$35-37$ 4 + $32-34$ 6 = 10

e) In what percent of these 20 games did Ted score fewer than 26 points?

$\frac{2}{20} = 0.10 = \underline{10\%}$

DO NOT count 26

3) Could the following sets of intervals be a correct grouping for a set of data? Explain why or why not.

a)

Interval
25-38
13-24
0-12

No, the intervals are not equal in size.

b)

Interval
20-29
10-19
5-9
0-4

No, the intervals are not equal in size.

c)

Interval
24-32
16-24
8-16
0-8

No, the intervals include overlapping value. For ex 8-16 and 0-8 both include 8.

