

- The following exercises must be completed as a group and turned in at the end of class. Everyone has to write the answers and turn in their quiz. I will randomly select one of the quizzes to grade, and everyone in the group gets the same grade.

1. (6 points) Consider the following frequency distribution.

Pizza Topping Preference	Frequency	Relative Frequency
Pepperoni	8	$8/25 = .32$
Sausage	3	$3/25 = .12$
Mushroom	5	$5/25 = .2$
Cheese	9	$9/25 = .36$
Total	25	1 or 100%

- (a) Write down the relative frequencies in the third column.
- (b) What graphical method would be appropriate to describe the pizza topping data set? *Circle all that apply.*

Bar Graph

Histogram

Pie chart

Time series graph

2. (4 points) Use the following stem and leaf diagram that shows the points made by starters in an NBA game this year. (Consider the data set a sample).

The key is **Stem: hundreds, Leaf: ones.**

Stem	Leaf
0	0 2 5 6
1	0 5
2	5
3	7
4	1 1

List all data points of the data set: 0, 2, 5, 6, 100, 105, 205

307, 401, 401

or 411 (if I told class that's on 11)
not 1, 1

3. (10 points) Consider the following grouped frequency distribution.

Actual Speed in a 30 mph Zone	Frequency
42 – 45	25
46 – 49	14
50 – 53	7
54 – 57	3
58 – 61	1

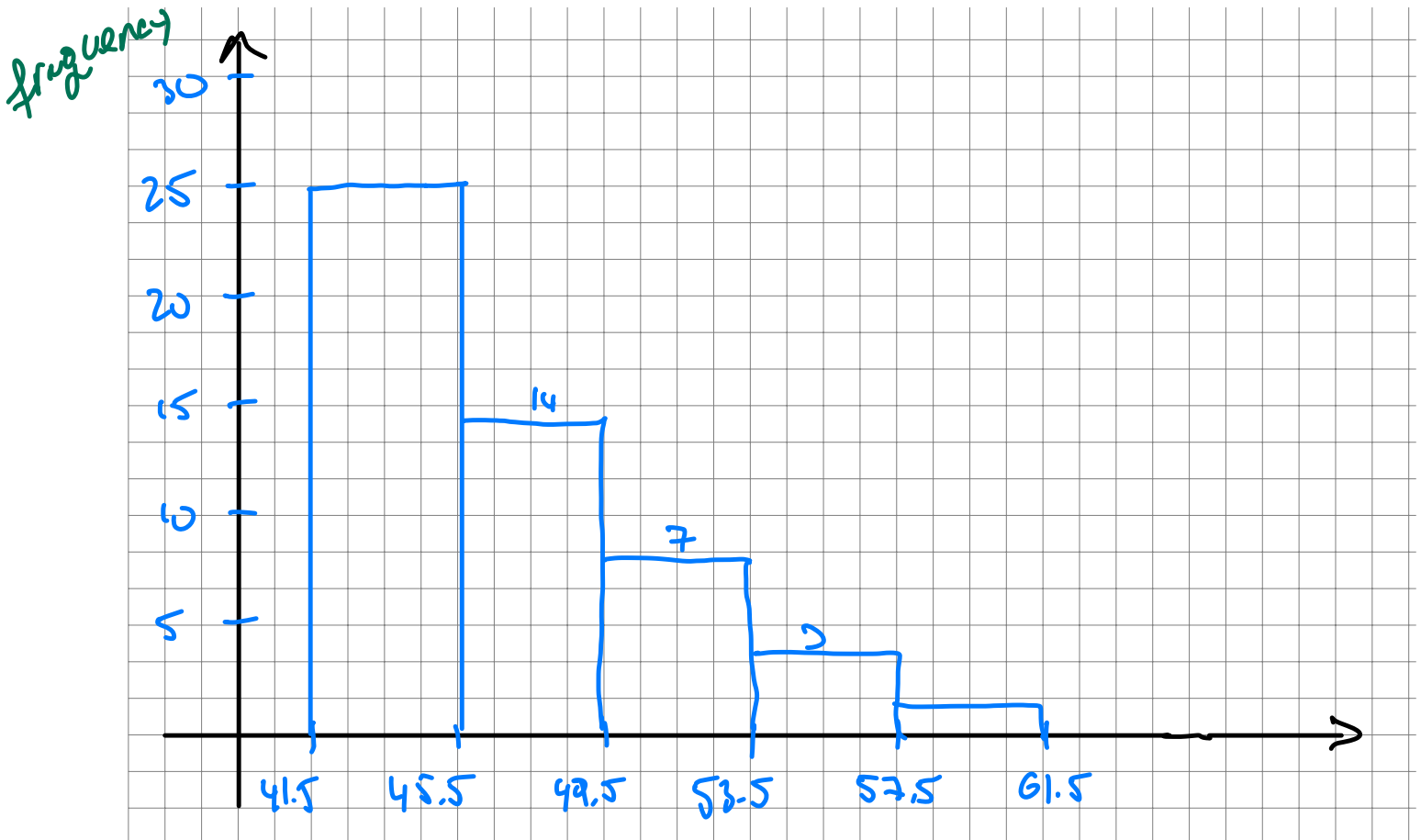
class boundaries

41.5 – 45.5
45.5 – 49.5
49.5 – 53.5
53.5 – 57.5
57.5 – 61.5

- (a) How many people go 20 miles or more over the speed limit? (50 and over)
 $7 + 3 + 1 = 11$ people
- (b) If you wanted to construct a **frequency polygon**, what would go on the x-axis?

class midpoints

- (c) Construct a **histogram** with frequency on the y-axis. Describe the shape of the histogram.



class boundaries

skewed right