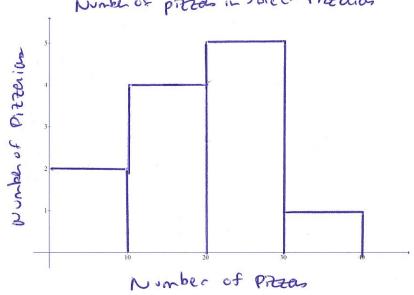
1) Consider the data below which represents the number different types of pizzas offered in select pizzerias. Round to two places as needed.

- a) (3 points) Find the mean of the data:
- b) (3 points) Find the median of the data:

c) (3 points) Find the mode of the data:

d) (3 points) Find the range of the data:

e) (4 points) Using the classes 0-9, 10-19, 20-29, and 30-39 draw and label a histogram for this data:



2) (2 points) Short Answer: Explain how to find the median of the set of numbers:

use your words

3) (3 points) Annie Edison is taking 5 courses this semester:

Theoretical Phys Ed—5 credit hours—Grade: A Reading?—4 credit hour—Grade: B Studyology—4 credit hours—Grade: B Principles of Intermediate—2 credit hours—Grade: A Introduction to Basics—3 credit hours—Grade: C

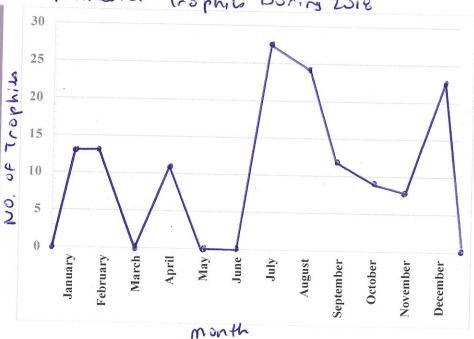
Assuming that a grade of an 'A' is worth 4 point, grade of a 'B' is worth 3 points, and a grade of a 'C' is worth 2 points, determine Annie's grade point average for the semester rounded to two decimal places:

4) (4 points) The following chart shows Mike's PlayStation activity during 2018. (Yes, this is actual data—no judging! (2) Draw and label a frequency polygon representing the <u>number of trophies</u>

earned each month.

Number of Trophic During 2018

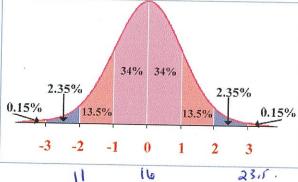
	GAMES	TROPHIES	Hours
January		13	172
February	2	13	130
March	0	0	83
April		11	118
May	1	0	33
June	0	0	56
July		28	139
August		24	169
September	4	12	112
October			102
November	2	8	71
December		23	126



- 5) (4 points each) Suppose there are 23,000 students at a protest and the ages of the people are normally distributed with a mean of 16 years and a standard deviation of 2.5 years.
- a) What percent of students are older than 11 years?

or 97.72% from wormstchant

b) What number of students are younger than 23.5 years? 0.15%

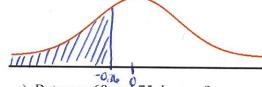


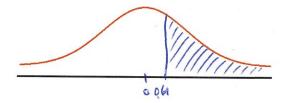
or 23970.1 people from normal chour.

- 6) (4 points each) The average high temperature during the first week of April in a select city is 72.3 degrees with a standard deviation of 3.6 degrees. Suppose a year is randomly picked. Determine the probability that the average high temperature during the first week of April of that year is in the ranges given below and also shade in the corresponding normal curve:
- a) Less than 71 degrees?

$$z = \frac{71-72.3}{3.6} \approx -0.36$$
 $35.94\%$ 

$$7 = \frac{74.5 - 72.3}{3.6} \approx 0.61$$
 $100\% - 72.91\% = 27.09\%$ 

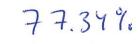


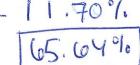


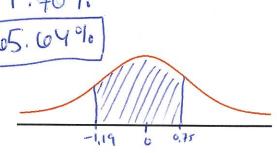
c) Between 68 and 75 degrees?

$$7 = \frac{75 - 72.3}{3.6} = 0.75$$

$$7 - \frac{(8-72.)}{3.6} = -1.19$$







- 7) (2 points each) Short answer:
- a) When should you use a histogram instead of a bar graph when graphically representing data?

b) When are you not allowed to use the 68-95-99.7% Rule when computing percentages of a population within a normal distribution?