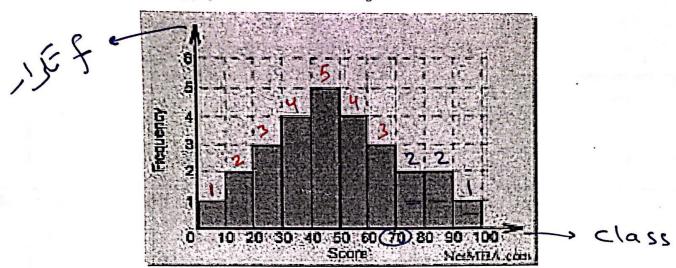
\*Chapter 2: Ex: Let the following data: O Construct afrequency table. could usua is 2) Calculate the relative and Percentage Draw: a) bar graph. b) Die chart. Frequency relative Percent

H 4 = 0.2 4 × 100 = 4 x 100 = 20% 10% 100% pie chart 40% C

Ex: Let the following data: 3 9 H 12 12 13 18 11 9 8 7 6 H to 12 10 8 16 14 15 12 12 13 7 6 8 16 13 8 6 تداعيمهاع (۲۰۶) a) Complete the table. | Frequency | Relative Percent < | Ascending zvi <u>Class</u> Age 12 = 0.4 40% <6 0 6-9 15  $\frac{14}{30} = 0.47$   $\frac{47}{30} = 0.13$   $\frac{13}{30} = 0.13$   $\frac{13}{30} = 0.13$   $\frac{13}{30} = 0.13$ 14 10-13 14-17 total b) Find the percentage of People having an age 13 or less? Se): 40% + 47% = 87% c) Draw: Thistogram. @ Polygon. 3) Ogive 91 shistogram. 14 12 , Polygon 8 4 6-9 10-13 14-17 C.F 30 ogive 26

12

Exercise (9): The following graph show the statistics exam degrees for 27 students.



ose the correct answer	رائ	2.130	de
The name of is this graph.			/
a- Bar chart	b- Pie chart	c- Histogram	d- Polygon
What the width of each class.	الفنة د	ر قفنة) طول	
a- 12	b- 15	C- 10	d- 11 ·
The minimum value is	ا فل قيمة		
a- 10	b- 12	G- 0	d- 5
The class has the greatest num	ber of students is	عذات الأكبر تكوار	الفئار
(a- 40-50)	b- 50-60	c- 30-40	d- 60-70
The number of students have	more than 70 degree is	2+2+1	
a- 8	b- 6 .	C- 5	d- 10
The largest value is	اكبره		
a- 80	b- 90	c- 100	d- 95
	The name of is this graph.  a- Bar chart  What the width of each class.  a- 12  The minimum value is  a- 10  The class has the greatest num  a- 40-50  The number of students have a- 8  The largest value is	The name of is this graph.  a- Bar chart  What the width of each class.  a- 12  b- 15  The minimum value is  a- 10  b- 12  The class has the greatest number of students is  a- 40-50  b- 50-60  The number of students have more than 70 degree is  a- 8  b- 6  The largest value is	The name of is this graph.  a- Bar chart  b- Pie chart  C- Histogram  What the width of each class.  a- 12  b- 15  The minimum value is  a- 10  b- 12  C- 0  The class has the greatest number of students is  a- 40-50  b- 50-60  C- 30-40  The number of students have more than 70 degree is  a- 8  b- 6  C- 5

Find midpoint for the class with highest frequency?

Exercise (10): The following data represent a group of 20 students' grades:

ABCAD BCFDC AFDBB DCACC

- Construct the frequency distribution table.
- Obtain the percent frequency table.
- Draw a bar chart of the data.

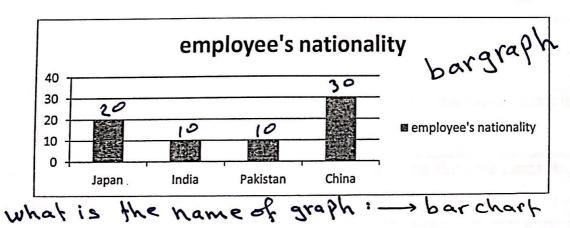
مرکز الفیّد دات الاکبر تکوار 40+50 = 45

## Answer all the following questions.

Question (1): Put the sign (X) to indicate the type of data.

		Qualitative	Quantitative
1-	Blood types of a sample of 50 students.	1	
2-	Gender of a high school graduate.	1	
3-	The final letter grades received by students in a statistics course.		
4-	Marital status of faculty members.		
5-	The amount of fuel sold at gas stations.		
6-	Student degree in final statistical exam.		
7-	The age of the students in Imam university.		
8-	Number of checks drawn from the bank.		

**Question 2:** The graph below represents the nationality of each employee in an international company:



a) Find the number of Pakistani employees? 10

b) Find the total number of all employees? 70

c) Find the percentage (percent distribution) of Indian employees?  $\frac{10}{70} \times 100\%$ 

d) Which one of these nationalities has the largest number of employees?

china.

فضلا انظر خلف الصفحة

Question (2)

## Choose the correct answer.

	1-	The difference between the largest and smallest data values is
		a) Mean.
		,
		b) Mode.
		c) Range.
	2-	Quantitative data are always
		A) Numeric.
		b) Non numeric.
		c) Numeric or non numeric.
	3-	To compare the variability of two or more sets of data measured in different units you must use
		a) Variance.
		b) Mean.
		Coefficient of variation.
	4-	The measures of the relative change in price, quantity, value, or some other item of interest from
		one time period to another is
3,	7	a) Coefficient of variation.
•		b) Time series.
		Index numbers.
	5-	The period for which you wish to find the index number is
		a) Current period.
7		b) Base period.
		c) Irregular component.
ŀ	6-	A well-defined collection of objects constitutes a
		a) Sample.
		b) Census.
		c) Population.
-	7-	A numerical measure describing some characteristic of a population is
		a) Sample.
		b) Statistic.
1		C) Parameter.
	2	
	3	فضلا انظر خلف الصفحة
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8-	Which of the following is Not a measure of variation			
	a) Standard deviation.			
	b) Coefficient of variation.			
	Geometric mean.			
9-	The regression line minimizes			
	a) The sum of errors.			
	b) The total of errors.			
	c) The sum of squares of the errors.			
10-	If the data contains an extreme values then the best measure of central tendency is			
	a) Mean.			
	b) Mode.			
	Median.			
11-	The difference between the third quartile and first quartile is called			
	The inter quartile range.			
	b) The mid quartile.			
	c) The differential quartile.			
12-	Cyclic component is a repeating swings or movements over			
	a) One year.			
	b) More than one year.			
	c) Less than one year.			