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* للحصول على أوراق عمل لجميع مواد الصف السادس اضغط هنا

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* للحصول على جميع أوراق الصف السادس في مادة رياضيات ولجميع الفصول, اضغط هنا

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MOE Exam 2 - Grade 6 - Term 3 - 2019/2020 Distance Learning

Lesson	Formula	Example
Surface area of pyramids	Area of the base Slant height S.A. = $B + \frac{1}{2}P\ell$ Perimeter of the base	Square pyramid B=6 x 6 = 16 P=6+6+6+6 = 24 L = 7 S.A.=16 + 0.5x24x7 = 16 + 84 = 100
Volume and Surface Area of composite figures	Volume of Rectangular Prisms = $l \times w \times h$ Volume of Triangular Prism = $\frac{b \times h \times h}{2}$ Volume of rectangle Pyramid = $\frac{b \times h \times h}{3}$ Volume of triangle Pyramid = $\frac{b \times h \times h}{6}$	Find the volume of the composite figure. V1 = 16 x 8 x 6 = 768 V2 = 8 x 6 x 8 = 384 V = 768 + 384 = 1152
Mean	Mean = sum of the data number of pieces of data Missing value = (Number of value × mean) – Sum of the data	Find the <u>mean</u> for the data. 3, 5, 5, 1, 7, 3 $Mean = \frac{3+5+5+1+7+3}{6} = 4$ A student was asked to find the mean of the numbers 23, 29, 17, 16 and x. He found the mean to be 22. What should be the number in place of x. $x = (5 \times 22) - 85 = 25$
Median and Mode	The median of a list of values is the value appearing at the center of a sorted version of the list. ترتيب الأرقام ثم إيجاد الرقم الذي يقع في الوسط The mode is the number or numbers that occur most often. الرقم الأكثر تكرارا	Find the median and mode for the set of data. 10,7,3,5,10,9,8 3,5,7,8,9,10,10 Median = 8 Mode = 10

Measures of Variation



Measures of **Variation**

Measure of Variation	Definition	Example From the Data Set
range	the difference between the largest and the smallest terms in a data set	145 – <mark>18</mark> = 127
median	the number in the center of a data set	61.5
quartile	used to break data up into quarters	first quartile: 47 second quartile: 79
interquartile range	the difference between the third and first quartiles	79 - 47 = 32
outliers	data points that lie outside of most the other data points in the set	18 or 145

Find the measures of variation for the set of data.

10,7,3,5,10,9,8

3,5,7,8,9,10,10

Range = Largest n. – Smallest n. = 10 - 3 = 7

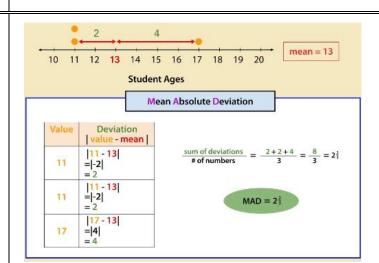
Median = 8

Q1 = 5 , Q3 = 10

IQR = Q3 - Q1IQR = 10 - 5 = 5

Outlier: No outlier

Mean **A**bsolute **D**eviation **MAD**



Find mean absolute deviation of the data.

5,7,10,2

Step1: mean = $\frac{5+7+10+2}{4}$ = 6

Step2: deviation |5-6|=1| 7 - 6 | = 1 , | 10 - 6 | = 4 , | 2 - 6 | = 4

Step3: MAD = $\frac{1+1+4+4}{4}$ = 2.5

Appropriate Measures

Measure Most appropriate when...

mean

· the data have no extreme values.

median

the data have extreme values.

there are no big gaps in the middle of the data.

mode

data have many repeated numbers.

2,3,5,8,8

The measures of center that best describe this data are the Mean

5, 16, 17, 19, 19

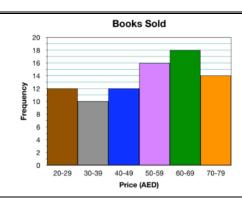
The measures of center that best describe this data are the Median

10, 12, 12, 12, 15

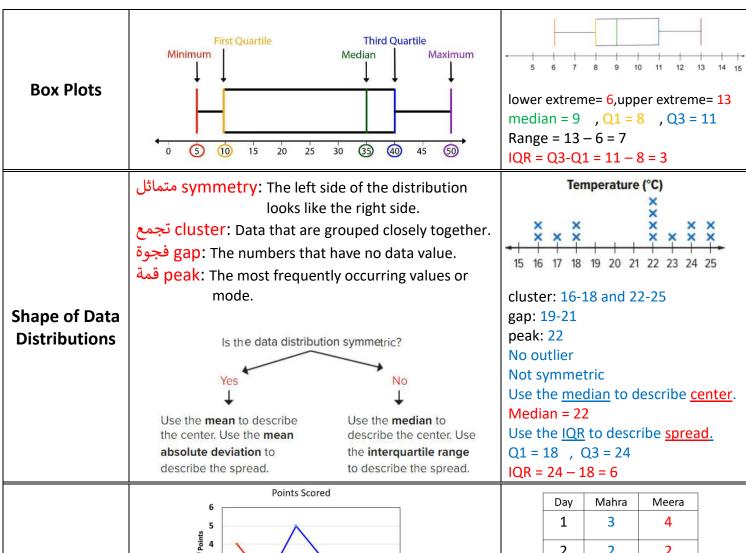
The measures of center that best describe this data are the

Mode and median

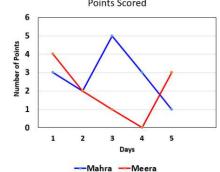
Histograms



- ➤ 10 books were between AED 30-39
- How many books cost between AED 50 - 59? 16 books
- How many books cost less than AED 40? 12 + 10 = 22 books
- Most of the books cost between AED 60 - 69

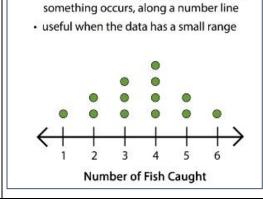






Day	Mahra	Meera
1	3	4
2	2	2
3	5	1
4	3	0
5	1	3

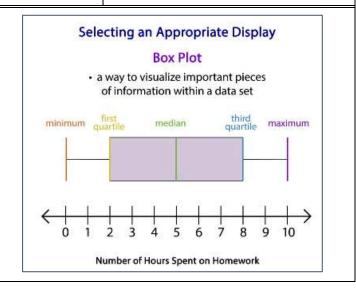
Select an Appropriate Display



Selecting an Appropriate Display

Line Plot

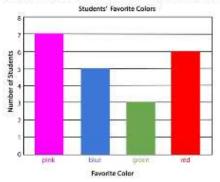
· shows the frequency of data, or how often



Selecting an Appropriate Display

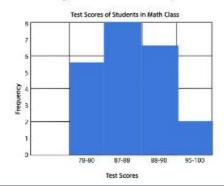
Bar Graph

- · shows the frequency of data
- · bars are used to represent the data
- useful when data can be separated into categories



Selecting an Appropriate Display Histogram

- a graph that groups data into intervals
- useful when the data has a large range or a large number of data points



Selecting an Appropriate Display

Line Graph

- a graph that displays a set of data points with straight line segments
- used to show a change in a data set over time

