

LESSON 8 .. Mean

(نجمع الأعداد ثم نقسمها على عددها الكلي) Outcomes: (الهدف)

Q1 : Find the mean of the data set :

1) Cost of snacks 5 , 6 , 5 , 10 , 9

$$5 + 6 + 5 + 10 + 9 = 35$$

$$35 \div 5 = \boxed{7}$$

3) Omar scored 9 , 0 , 2 , 1

$$9 + 0 + 2 + 1 = 12$$

$$12 \div 4 = \boxed{3}$$

2)

Miniature Golf Scores			
70	72	68	72
81	71	74	76

8 1
16 2
24 3
32 4
40 5
48 6
56 7
64 8

$$584 \div 8 = 73$$

$$\text{mean} = 73$$

70
72
68
72
81
71
74
76
584

Find the missing number ?

Mean = 3 , data : 2 , 3 , 4 ,

نضرب ال mean بعدد الأعداد ثم نطرح من مجموعها

الحل بخطوتين :

mean

$$3 \times 4 = 12$$

$$12 - 9 = 3$$

Q2 : Find the missing value from data set:

1. Mean number of televisions in a home ^{mean} 3, data set 1, 2, 4, 4, 2, 0, ■

$$7 \times 3 = 21$$

$$1 + 2 + 4 + 4 + 2 + 0 = 13$$

$$21 - 13 = \boxed{8}$$

2. Mean number of goals scored by the team ^{mean} 4, data set: 7, 3, 4, ■, 1

$$4 \times 5 = 20$$

$$7 + 3 + 4 + 1 = 15$$

$$20 - 15 = \boxed{5}$$

Lamya spent 20 minutes on homework on Monday, 20 minutes on Tuesday, 40 minutes on Wednesday, 30 minutes on Thursday, and 0 minutes on Friday.

What is the mean number of minutes she spent on homework?

(A) 27.5 minutes

(B) 18 minutes

(C) 22 minutes

(D) 30 minutes

$$\begin{array}{r} 20 \\ 20 \\ 40 \\ + 30 \\ 0 \\ \hline 110 \end{array}$$

$$110 \div 5 = 22$$

$$\begin{array}{r} 5 \ 1 \\ 10 \ 2 \\ \hline 15 \ 3 \\ 20 \ 4 \end{array}$$

LESSON 9 .. Median and mode

(الهدف) Outcomes: **Median ...** العدد الذي يأتي في الوسط بعد ترتيب البيانات
Mode .. العدد الأكثر تكراراً

Q1 : Find the median and mode from set of data :

1) **Cost of snacks: 6 , 10 , 10 , 12 , 10 , 11 , 4 , 6 , 8 , 9 , 2**

ترتيب من الأصغر إلى الأكبر 2, 4, 6, 6, 8, 9, 10, 10, 10, 11, 12

Median =9..... الوسيط Mode =10..... (تكرار)

2) **Grams of fat : 32 , 35 , 34 , 33 , 33 , 32**

32, 32, 33, 33, 34, 35

Median =33..... الوسيط Mode = 32 and 33 (تكرار)

3) **Data : 15 , 15 , 13 , 11 , 9 , 11 , 16 , 15**

9, 11, 11, 13, 15, 15, 16

Median =14..... الوسيط Mode =15..... (تكرار)

4) ترتيب

0, 0, 0, 0, 1, 2, 2, 3, 3, 3, 5, 7

Median =2..... الوسيط

Mode =0.....

Visits to the Museum this Year

0	3	1	0	2	3
5	2	3	7	0	0

Q2 : Choose the correct answer :

1) Data is 45 , 55 , 53 , 55 , 53 the mode is : (تكرار)

a) 55

b) 55 and 53

c) 53

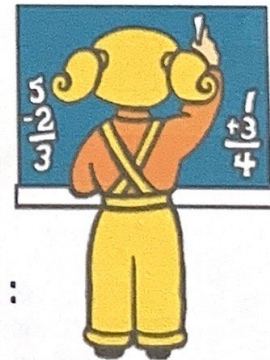
2) Data is 23 , 22 , 28 , 29 , 23 , 25 the median is : (وسيط)

22, 23, 23, 25, 28, 29

b) 22

b) 28

c) 24



LESSON 10 .. Line plot

Mode = العدد الأكثر تكراراً

Mean = نجمع الأعداد ثم نقسم على عددهم

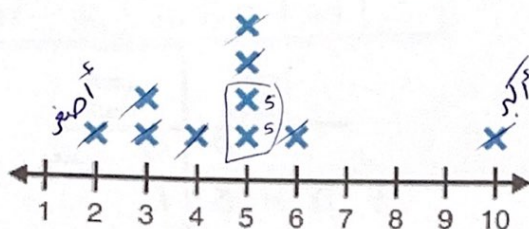
Outlier = العدد البعيد عن البيانات

Median = العدد الذي يأتي في الوسط بعد ترتيب البيانات

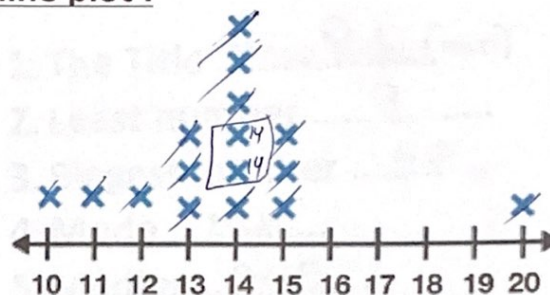
Range = أكبر عدد - أصغر عدد

Q1 : Find from a line plot :

Number of Raisins per Muffin



mode = 5 median = 5

range = $10 - 2 = 8$ outlier = 10

mode = 14 median = 14

range = $20 - 10 = 10$ outlier = 20

Q2 : Choose the correct answer :

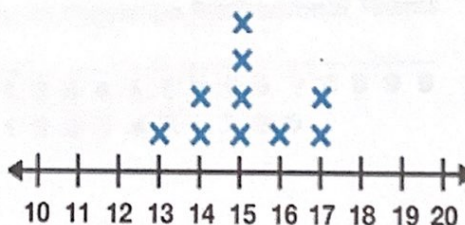
1. The range of the set of data is

a. 3

b. 4

c. 5

$$17 - 13 = 4$$

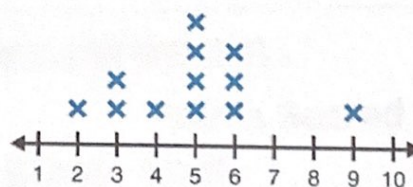
2. The outlier of the number of book is

a. 2

b. 5

c. 9

Books Farah Reads Each Month

3. The median of the heights is

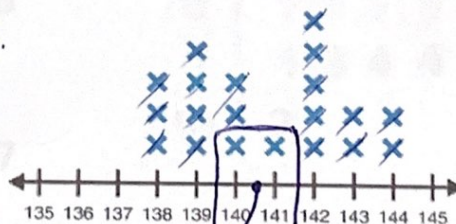
a. 141.5

b. 141

c. 139

بين 140 و 141
هو $140\frac{1}{2}$

Heights of Fifth Grade Students (cm)



$$140.50 = \text{الوسط}$$

LESSON 11 .. Stem and leaf plot

Outcomes : Stem (tens) leaves (once) $2 \setminus 5 = 25$

Q1 : Display the set of data in the stem and leaf plot and find :

Bus Ride (min)					
24	14	25	28	47	13
17	30	35	16	39	9

 $\Rightarrow 9, 13, 14, 16, 17, 24, 25, 28, 30, 35, 39, 47$
ترتيب
البيانات1. The Title ... Bus Ride (min) ...2. Least number 93. Biggest number 474. Mode No5. Median 24.56. Range 47 - 9 = 387. Outlier 47

(ten) Stem	(once) leaves
0	9
1	3 4 6 7
2	4 5 8
3	0 5 9
4	7

Q2 : Refer to the stem and leaf plot below :

a. How many players are there on the team?

30

Ages of Player on Professional Teams

Stem	Leaf
2	1 2 3 3 4 4 5 5 5 5 6 7 7 8 9 9
3	0 1 1 2 2 3 4 5 6 7 8 9
4	0 1

b. What was the age of the youngest player?

21 $2 \setminus 3 = 23$ yearsc. What is the range of the ages of the players? 41 - 21 = 20

Q2 : Choose the correct answer from stem and leaf plot :

1. What is the range: $102 - 52 =$

a. 52

b. 51

c. 502. The outlier is :

a. 52

b. 102

c. 10

3. The median is :

a. 63

b. 65

c. 67

Points Scored	
Stem	Leaf
5	2 2 3 5 6 9
6	1 3 5 5 5 7 8 8
7	1 3 4 4
10	2