تم تحميل هذا الملف من موقع المناهج الإماراتية

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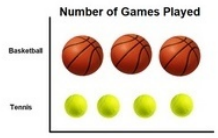
QUESTION 1

Make an inference about this misleading graph.



- It gives the impression that people like to play tennis more than basketball.
- This graph is not misleading.
- It gives the impression that the number of basketball games is less than the number of tennis games.
- It gives the impression that the number of basketball games and tennis games is the same. ✓

QUESTION 2

Hind's sister wants to buy a black bag.
Hind found black bags that her sister likes.

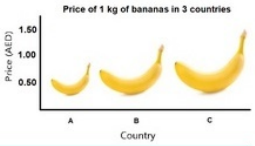
Hind's sister wants to buy a black bag.
Hind found black bags that her sister likes.

The bags cost AED 900, AED 800, AED 800, AED 700, and AED 800. Hind told her sister that the average cost is AED 800.
Is her average misleading?

- Yes, the median is greater than the rest.
- Yes, the mode is smaller than the rest.
- ✓ No, the mean, median, and mode are equal to 800.
- Yes, the mean is smaller than the rest.

QUESTION 3

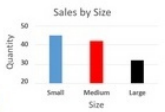
Decide why this graph is misleading.
Select a reason from the given options.



- The scale of the horizontal axis is not correct.
- ✓ The size of the bananas is not the same.
- The graph title is not correct.
- The scale of the vertical axis is not correct.

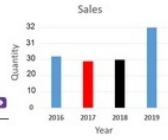
QUESTION 4

The graph is misleading because the vertical axis does not start at 0.



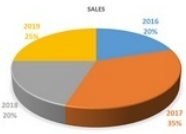
QUESTION 5

The graph is misleading because the values on the vertical axis are not consistent.



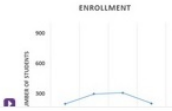
QUESTION 6

The graph is misleading because the gray section looks bigger than the blue section.



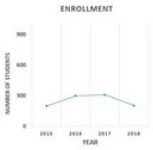
QUESTION 7

The graph is misleading because the vertical axis scale is too large.



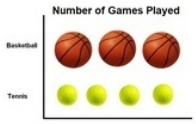
QUESTION 7

The graph is misleading because the vertical axis scale is too large.



QUESTION 8

Explain why this graph is misleading.

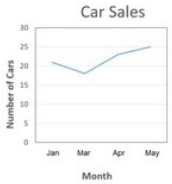


- The number of tennis balls is greater than the number of basketballs.
- ✓ The balls are not the same size.
- The graph title is incorrect.
- The balls have different colors.

QUESTION 9

QUESTION 9

The graph is misleading because the data on the horizontal axis is not consistent. ✓



QUESTION 10

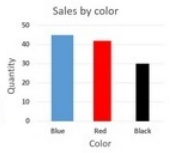
Sara's sister wants to buy a black bag. Sara found black bags that her sister likes.
The bags cost AED 600, AED 1,500, AED 760, AED 760, and AED 800.

Sara told her sister that the average cost is AED 884.
Is her average misleading?

- ◉ Yes - the median and mode, of AED 760 should be used ✓
- ○ Yes - the mean of AED 804 should be used
- ○ Yes - the mean of AED 800 should be used
- ○ Yes - the median and mode, of AED 804 and 800 should be used

QUESTION 11

The graph is misleading because the bars do not have the same size. ✓



QUESTION 12

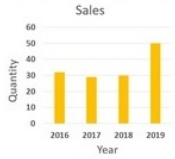
Humaid wants to show that the average price of a return ticket to a certain country is low.
Using the given statistics, which measurement can Humaid use to describe a lower, average price?

Mean: AED 1,380
Median: AED 1,100
Mode: AED 800

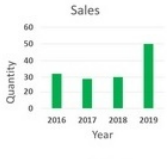
Airline	Return Ticket Price (AED)
A	800
B	800
C	1,100
D	1,200
E	3,000

- ○ Median
- ○ Mean
- ○ AED 400
- ◉ Mode ✓

Which graph is misleading?



Graph A

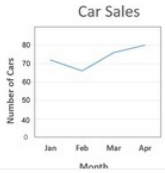


Graph B

- Graph A
- No graph is misleading
- Graph B ✓
- Both graphs

QUESTION 14

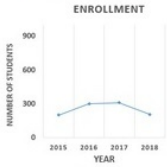
The graph is misleading because the vertical axis values are not consistent. ✓



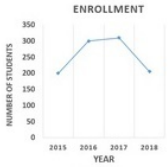
QUESTION 15

QUESTION 15

Which graph is misleading?



Graph A



Graph B

- ○ Both graphs
- ○ Graph B
- ○ No graph is misleading
- ◉ Graph A ✓

QUESTION 16

Using the given statistics, which measurement can be used to describe a high, average price?

Mean: AED 1,460

Airline	Return Ticket Price (AED)

QUESTION 16

Using the given statistics, which measurement can be used to describe a high, average price?

Mean: AED 1,460
Median: AED 1,100
Mode: AED 1,000

Airline	Return Ticket Price (AED)
A	1,000
B	1,000
C	1,100
D	1,200
E	3,000

- ○ Median
- ◉ Mean ✓
- ○ Mode
- ○ AED 3,000

QUESTION 17

Use the data in the given table.

The mean is AED 200,000.
The median is AED 160,000.
The mode is AED 160,000.

Which measurement is misleading when describing the average cost?

Car Type	Price (AED)
Hatchback	120,000
Coupe	140,000
Sports	160,000
Diesel	160,000
Salon	180,000

QUESTION 17

Use the data in the given table.

Car Type	Price (AED)
Hatchback	120,000
Coupe	140,000
Sports	160,000
Diesel	160,000
Salon	180,000
Turbo	200,000
SUV	440,000

The mean is AED 200,000.
The median is AED 160,000.
The mode is AED 160,000.

Which measurement is misleading when describing the average cost?

- (●) Mean ✓
- ( ) Median
- ( ) Median and mode
- ( ) Mode

QUESTION 18

Using the given statistics, which measurement can be used to describe a low, average price?

Mean: AED 2,600,000
Median: AED 2,000,000
Mode: AED 1,000,000

3-Bedroom Villa	Price (AED)
A	1,000,000
B	2,000,000
C	1,000,000
D	4,000,000

Using the given statistics, which measurement can be used to describe a low, average price?

Mean: AED 2,600,000
Median: AED 2,000,000
Mode: AED 1,000,000

3-Bedroom Villa	Price (AED)
A	1,000,000
B	2,000,000
C	1,000,000
D	4,000,000
E	5,000,000

- ○ Mean
- ○ Median
- ◉ Mode ✓
- ○ Mean and Median

QUESTION 19

Use the data in the given table.

Shirt Size	Cost (AED)
XS	170
S	180
M	180
L	140
XL	200
XXL	360

The mean is AED 205 ✓.

The median is AED 180 ✓.

The mode is AED 180 ✓.

The misleading measurement in describing the average cost is the mean.

QUESTION 20

Using the given statistics, which measurement could Salem use to describe the price of an expensive villa?

Mean: AED 5,000,000
Median: AED 4,000,000
Mode: AED 3,000,000

3-Bedroom Villa	Price (AED)
A	10,000,000
B	3,000,000
C	5,000,000
D	4,000,000
E	3,000,000

- ○ Median
- ○ AED 10,000,000
- ○ Mode
- ◉ Mean ✓

QUESTION 21

Use the data in the given table.

The mean is AED 150,000.
The median is AED 120,000.
The mode is AED 120,000.

Which measurement is misleading when describing the average cost?

Car Type	Price (AED)
Hatchback	100,000
Coupe	120,000
Sports	120,000
Diesel	120,000

QUESTION 21

Use the data in the given table.

Car Type	Price (AED)
Hatchback	100,000
Coupe	120,000
Sports	120,000
Diesel	120,000
Salon	130,000
Turbo	130,000
SUV	330,000

The mean is AED 150,000.
The median is AED 120,000.
The mode is AED 120,000.

Which measurement is misleading when describing the average cost?

- ○ Median
- ○ Mode
- ○ Median and mode
- ◉ Mean ✓

QUESTION 22

Use the data in the given table.

QUESTION 22

Use the data in the given table.

Shirt Color	Cost (AED)
Blue	170
Black	160
White	170
Gray	50
Green	180

The mean is AED 146 ✓.

The median is AED 170 ✓.

The mode is AED 170 ✓.

The misleading measurement when describing the average cost is the mean.

QUESTION 23

Use the data in the given table.

Shirt Size	Cost (AED)
XS	70
S	280
M	290
L	280
XL	280
XXL	282

The mean is AED 247 ✓.

The median is AED 280 ✓.

The mode is AED 280 ✓.

The misleading measurement when describing the average cost is the mean.

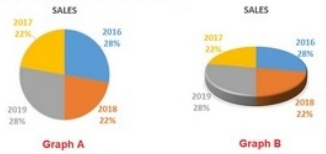
QUESTION 24

The height in centimeters of a group of students is given in the table below. Which measurement is misleading when describing the average height?

Height (cm)					
140	136	145	146	140	133

- ○ Median
- ○ Mean
- ◉ No average is misleading ✓
- ○ Mode

Compare the two graphs below.

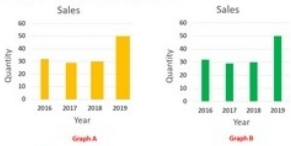


Graph B is misleading.

It is meant to show an increase in sales in 2018 and 2019.

QUESTION 26

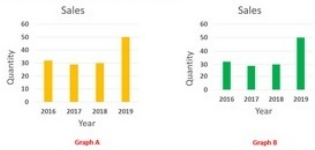
Compare the two given graphs.



Graph A is misleading.

It is meant to show an increase in sales, over the years.

Compare the two graphs below.



Graph B is misleading.

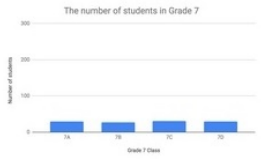
It suggests an increase in sales for 2019.

QUESTION 28

Make an inference about this misleading graph.

The misleading graph suggests the number of students in the grade 7 classes are the same.

are the same except for 7D | are not the same | are not the same except for 7A



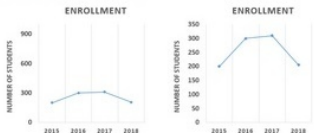
QUESTION 29

Make an inference about this misleading graph.

- The graph is not misleading.
- Show a huge change from 2018 to 2019.
- Give an impression of a stable price over the years. ✓
- Show a huge change from 2017 to 2018.

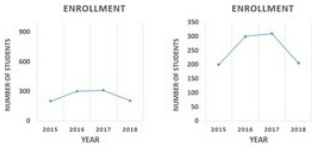
QUESTION 30

Given the graphs below.



QUESTION 30

Given the graphs below.



Graph A

Graph B

Graph A is misleading.

It is meant to show a consistent enrollment from 2015 to 2018.

QUESTION 31

Make an inference about this misleading graph.

It is meant to show a consistent enrollment from 2015 to 2018 .

QUESTION 31

Make an inference about this misleading graph.

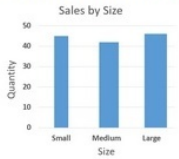
- The misleading graph suggests the price increases, and then decreases
- The misleading graph suggests that the price will increase.
- The misleading graph suggests the price has slightly decreased. ✓
- The misleading graph suggests there is huge decrease in price.

QUESTION 32

Make an inference about this misleading graph.

QUESTION 32

Make an inference about this misleading graph.



- ○ The misleading graph gives the impression that Medium size is mostly chosen.
- ○ The misleading graph gives the impression that all sizes are equally chosen.
- ◉ The misleading graph gives the impression that Large size is mostly chosen. ✓
- ○ The misleading graph gives the impression that Small size is mostly chosen.

QUESTION 33

Make an inference about this misleading graph.

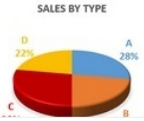
QUESTION 33

Make an inference about this misleading graph.

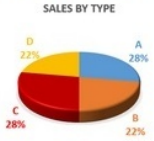
- [x] Show a huge increase in the price in the last two years.
- [ ] The graph is not misleading.
- [ ] Show no change in the price in the last years.
- [ ] Show a consistent price in the last years.

QUESTION 34

Make an inference about this misleading graph.



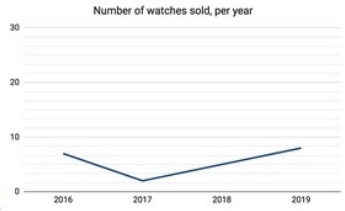
Make an inference about this misleading graph.



- ○ The graph show no difference in sales by type.
- ○ Types A and D has more sales than B and C.
- ○ The graph is not misleading.
- ◉ Type B and C has more sales than A and D. ✓

QUESTION 35

Make an inference about this misleading graph.



The misleading graph suggests the number of watches sold, per year [decrease, and then increase ✓ ▾].

QUESTION 36

Use the data in the given table.

Shirt Color	Cost (AED)
Blue	150
Black	160
White	140
Gray	150
Green	40

The mean is AED 128 ✓.

The mode is AED 150 ✓.

The median is AED 150 ✓.

The misleading measurement in describing the average cost is the mean ✓ .(Use mean, median, or mode)

QUESTION 37

The income (AED) of 5 people, per year is given below:

11,000 12,000 18,000 22,000 45,000

The mean is AED 21,600
The median is AED 18,000.
There is no mode.

The mean ✓ is misleading when describing the average income of the 5 people.

Use the data in the given table.

The mean is AED 24.
The median is AED 14
The mode is AED 12.

The mean ✓ is misleading when describing the average cost.

Fruit (per kg)	Price (AED)
Orange	17
Apple	12
Pear	12
Plum	14
Avocado	65

mode | highest price | median

QUESTION 39

Use the data in the given table.

The mean is AED 220,000.
The median is AED 170,000.
There is no mode.

The mean ✓ is misleading in describing the average cost.

Car Type	Price (AED)
Hatchback	140,000
Coupe	150,000
Sports	160,000
Diesel	170,000
Salon	180,000
Turbo	190,000
SUV	550,000

The height in centimeters of a group of students is given in the table below. Which measurement is misleading in describing the average height?

Height (cm)					
155	155	150	156	160	94

- ○ Mean and mode
- ◉ Mean ✓
- ○ Median
- ○ Mode

QUESTION 41

The height, in centimeters of 6 students is given below.

200, 130, 170, 170, 160, 170

The mode ✓ should be used as a measure of center, to emphasize the average height of the students.

mean | range | highest value

QUESTION 42

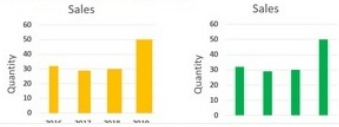
The table shows the height in centimeters of a group of students. Which measure of center would you use to emphasize the average height of the students?

Height (cm)					
135	130	170	170	160	90

- ○ Mean
- ◉ Mode ✓
- ○ Median
- ○ Mean and median

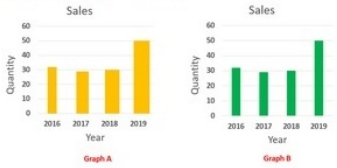
QUESTION 43

Decide which graph is misleading.



QUESTION 43

Decide which graph is misleading.



- ○ Both graphs
- ○ Graph B
- ◉ Graph A ✓
- ○ No graph is misleading

QUESTION 44

A small shop sells watches and jewelry.

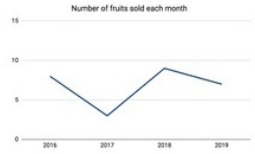
The graph is misleading because the graph title is not correct ✓.

QUESTION 44

A small shop sells watches and jewelry.

The graph is misleading because [the graph title is not correct] .

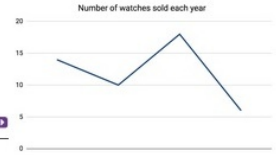
the horizontal axis does not start at 0 | the horizontal axis shows no values. | the vertical axis shows no values.



QUESTION 45

A small shop sells watches and jewelry.

The graph is misleading because [the horizontal axis shows no values] .



QUESTION 46

This graph is misleading because [the percents do not add to 100%.]

QUESTION 47

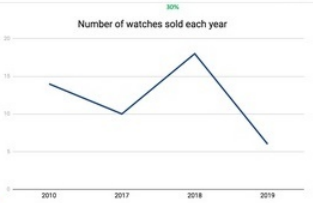
Back

Misleading Graphs and Statistics

Completed

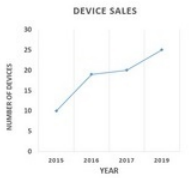
A small shop sells jewelry and watches.

This graph is misleading because the horizontal axis values are not consistent. ✓ .



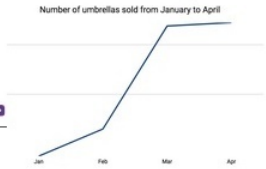
QUESTION 48

The graph is misleading because the horizontal axis values are not consistent. ✓ .



QUESTION 49

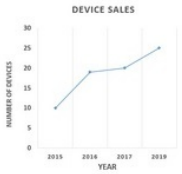
Given the options, this graph is misleading because the vertical axis shows no values ✓ .



QUESTION 50

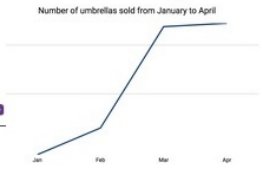
This graph is misleading because the vertical axis shows no values. ✓

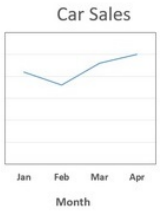
The graph is misleading because the horizontal axis values are not consistent.



QUESTION 49

Given the options, this graph is misleading because the vertical axis shows no values.



QUESTION 50

This graph is misleading because the vertical axis shows no values.