Question 8

Not yet answered

Marked out of 2.00

Flag question

If the frequency curve of a set data has a bell-shape with mean 200 and variance 100, then the percentage of observations that lies in the interval (170,190) is approximately equals to:

a) 81.5%

b) 83.5%

c) 2%

d) 13.5%

e) 15.5%

Question 9

Not yet answered

Marked out of 2.00

Flag question

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

I) Approximately 75% of the scores are above 31.2.
II The mean is less than 44.5.
III) Approximately 50% of the scores lie between 31.2 and 67.
a) I only
b) II only
c) III only
d) I and III only
e) II, and III only

○ a)

○ b)

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Time left 0:08:39

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In a distribution 0f 160 values with a mean of 72, at least 120 fall within the interval (67, 77) . Approximately the percentage of values that should fall in the interval (64.5, 79.5) is :

a) 75%

b) 93.75%

c) 88.88%

d) 96%

e) 55.55%

Finish o

Time le

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	59.8	67

Which of the following conclusions can be drawn from the data?

I) The mean is less than 44.5.
II) Approximately 75% of the scores are below 59.8.
III) Approximately 50% of the scores lie between 31.2 and 59.8.

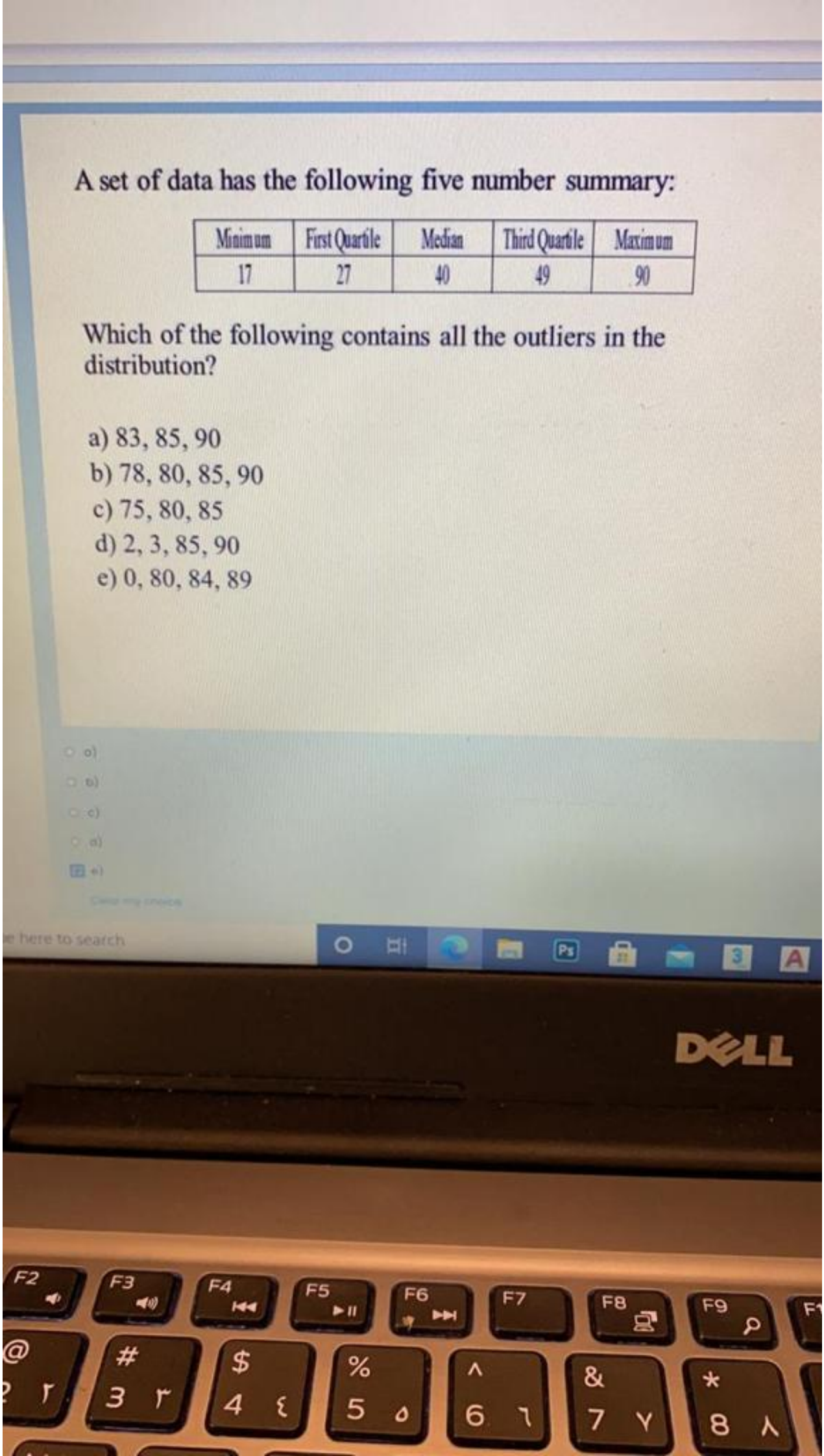
a) I only
b) II only
c) III only
d) I and III only
e) II. and III only

A set of data has the following five number summary:

Minimum	First Quartile	Median	Third Quartile	Maximum
17	27	40	49	90

Which of the following contains all the outliers in the distribution?

a) 83, 85, 90
b) 78, 80, 85, 90
c) 75, 80, 85
d) 2, 3, 85, 90
e) 0, 80, 84, 89



A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	59.8	67

Which of the following conclusions can be drawn from the data?

I) The mean is less than 44.5.
II) Approximately 75% of the scores are below 59.8.
III) Approximately 50% of the scores lie between 31.2 and 59.8.

a) I only
b) II only
c) III only
d) I and III only
e) II. and III only

5)

https://lmsystem.ju.edu.jo/mod/quiz/attempt.php?attempt=175752&cmid=275

There are three children in a room, ages five, six and seven. If a six-year-old child enters the room, then

a) The mean age will stay the same but the variance will increase

b) The mean age and variance will stay the same

c) The mean age will stay the same but the variance will decrease

d) The mean age and variance will increase

e) The mean age and variance will decrease

a)
b)
c)
d)
e)

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DELL

For the following grouped frequency distribution

Class	0 – 5	6 – 11	12 – 17	18 - 23
frequency	2	8	7	3

The number of observations that lie below 21.5 is

a) 19

b) 8

c) 6

d) 14

e) 10

https://lmsystem.ju.edu.jo/mod/quiz/attempt.php?attempt=175752&cmid=275116

In a distribution 0f 160 values with a mean of 72, at least 120 fall within the interval (67, 77) . Approximately the percentage of values that should fall in the interval (64.5, 79.5) is :

a) 75%
b) 93.75%
c) 88.88%
d) 96%
e) 55.55%

Marked out of 2.00

Flag question

In a distribution 0f 160 values with a mean of 72, at least 120 fall within the interval (67, 77) . Approximately the percentage of values that should fall in the interval (64.5, 79.5) is :

a) 75%
b) 93.75%
c) 88.88%
d) 96%
e) 55.55%

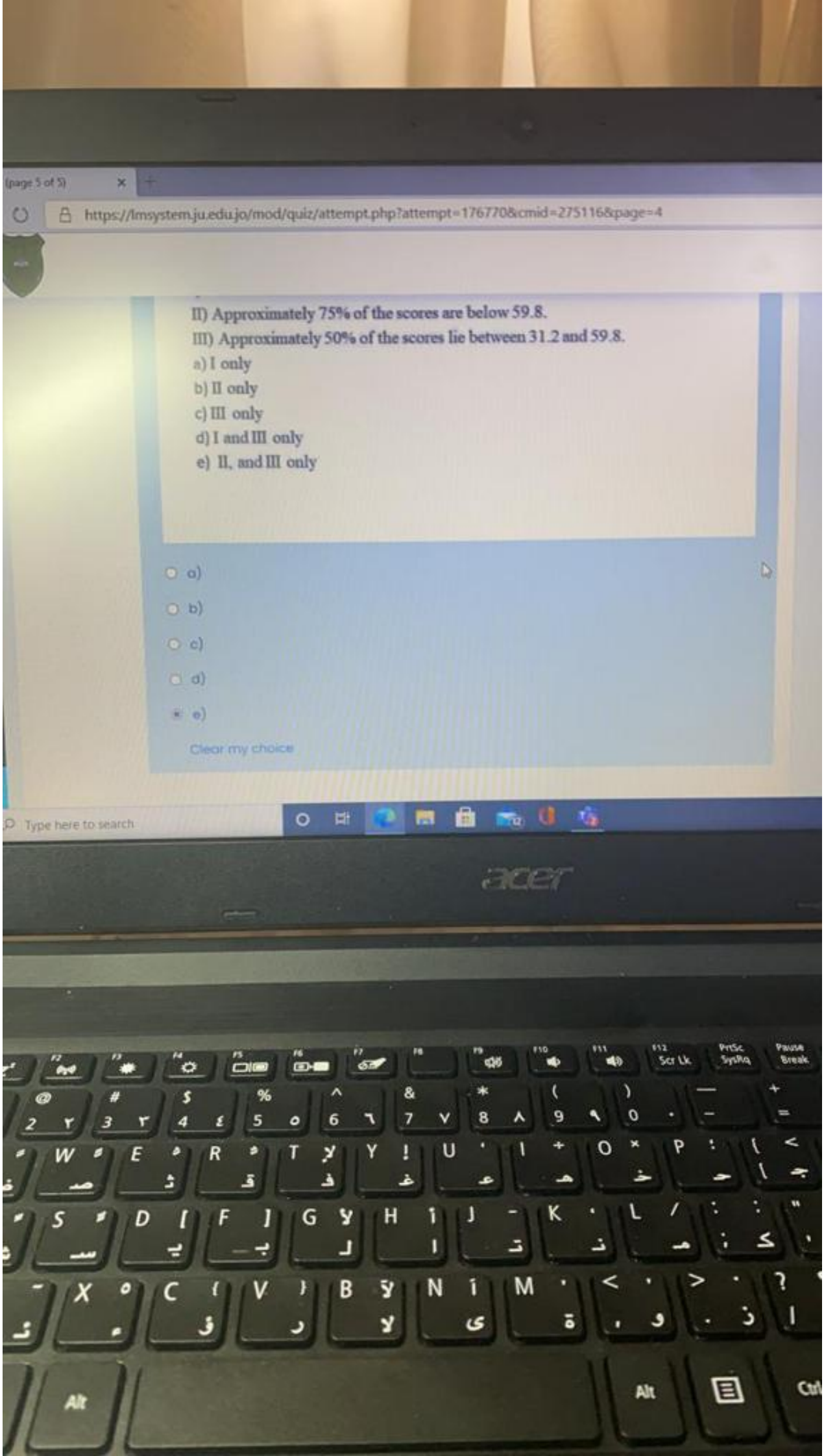
- a)
- b)
- c)
- d)
- e)

Clear my choice

Next page

Quiz navigation

1 2 3 4 5 6 7 8 9 10


(page 5 of 5)
https://lmsystem.ju.edu.jo/mod/quiz/attempt.php?attempt=176770&cmid=275116&page=4
II) Approximately 75% of the scores are below 59.8.
III) Approximately 50% of the scores lie between 31.2 and 59.8.
a) I only
b) II only
c) III only
d) I and III only
e) II, and III only
a)
b)
c)
d)
e)
Clear my choice
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acer

Question 10

Not yet answered

Marked out of 2.00

Flag question

There are three children in a room, ages three, four, and five. If a four-year-old child enters the room, then

a) The mean age will stay the same but the variance will decrease

b) The mean age will stay the same but the variance will increase

c) The mean age and variance will stay the same

d) The mean age and variance will increase

e) The mean age and variance will decrease

Marked out of 2.00

Flag question

Q1)

In a class (sample) of 10 students, the grades have mean 15 and variance 16.

If a student whose grade is 24 left the class, then the new variance of this sample will be

a) 6.75
b) 9
c) 11.25
d) 1.75
e) 15.0

Suppose each employee in the company receives a $3000 raise for next year (each employee's salary is increased by $3000). The standard deviation of the salaries for the employees will

a) be multiplied by $3000

b) increase by $3000

c) be unchanged

d) increase by $\sqrt{3000}$

e) be multiplied by 3000^2

c)

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

I) Approximately 75% of the scores are above 31.2.

II The mean is less than 44.5.

III) Approximately 50% of the scores lie between 31.2 and 67.

a) I only

b) II only

c) III only

d) I and III only

e) II, and III only

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

I) Approximately 75% of the scores are above 31.2.

II The mean is less than 44.5.

III) Approximately 50% of the scores lie between 31.2 and 67.

a) I only

b) II only

c) III only

d) I and III only

e) II. and III only

Marked out of 2.00

Flag question

Q4)

For a collection of 350 observations with a **bell-shaped** frequency graph, the mean is $\overline{X} = 60$ and the standard deviation is $S = 3$. The number of observations that lie in the interval (54 , 57) is approximately equals to:

a) 47
b) 245
c) 6
d) 41
e) 44

7 8 9 10

Finish attempt ...

Time left 0:39:19

Question 5
Not yet answered
Marked out of 2.00
Flag question

Q6)

Class	0-4	5-9	10-14	15-19
Frequency	10	5	5	10

For the above grouped frequency distribution, the 70^{th} percentile, P_{70}=

a) 16.5
b) 15.75
c) 15
d) 16
e) 14.25

Quiz navigation
1 2 3 4
Finish attempt ...
Time left 0:21:25

Q7)

Given the sample data: a, b, c with $a<b<c$.

If the mean is 9, the median is 10 and the range is 13, then $a=$

a) 10
b) 3
c) 2
d) 1
e) 7

For the following grouped frequency distribution

Class	0 – 5	6 – 11	12 – 17	18 - 23
frequency	2	8	7	3

The number of observations that lie below 21.5 is

a) 19

b) 8

c) 6

d) 14

e) 10

There are three children in a room, ages four, five and six. If a five-year-old child enters the room, then

a)The mean age will stay the same but the variance will increase

b) The mean age will stay the same but the variance will decrease

c) The mean age and variance will stay the same

d) The mean age and variance will increase

e) The mean age and variance will decrease

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

I) Approximately 75% of the scores are above 31.2.

II The mean is less than 44.5.

III) Approximately 50% of the scores lie between 31.2 and 67.

a) I only

b) II only

c) III only

d) I and III only

e) II, and III only

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

I) Approximately 75% of the scores are above 31.2.
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III) Approximately 50% of the scores lie between 31.2 and 67.

a) I only
b) II only
c) III only
d) I and III only
e) II, and III only

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

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II The mean is less than 44.5.
III) Approximately 50% of the scores lie between 31.2 and 67.

a) I only
b) II only
c) III only
d) I and III only
e) II. and III only

There are three children in a room, ages three, four, and five. If a four-year-old child enters the room, then

a)The mean age will stay the same but the variance will decrease

b) The mean age will stay the same but the variance will increase

c) The mean age and variance will stay the same

d) The mean age and variance will increase

e) The mean age and variance will decrease

Question 1

Not yet answered

Marked out of 2.00

Flag question

Which of the following are true statements?

I) The standard deviation is the square root of the variance.

II) The standard deviation is zero only when all values are the same.

III) The IQR is strongly affected by outliers.

a) I only

b) I and III

c) I, II and III

d) II, and III

e) I and II.

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Question 5

Not yet answered

Marked out of 2.00

Flag question

If the heights of students has a symmetric distribution about the median Q2=170 cm

And the lower quartile Q1=155 cm, then the inter-quartile range, IQR=

a) 30

b) 15

c) 185

d) 75

e) 50

Suppose each employee in the company receives a $3000 raise for next year (each employee's salary is increased by $3000). The variance of the salaries for the employees will

a) be multiplied by $3000

b) increase by $3000

c) increase by $\sqrt{3000}$

d) be unchanged

e) be multiplied by 3000^2

Which of the following are true statements?

I) The standard deviation is the square root of the variance.

II) The standard deviation is zero only when all values are the same.

III) The IQR is strongly affected by outliers.

a) I only
b) I and III
c) I, II and III
d) II, and III
e) I and II.

Question 7

Not yet answered

Marked out of 2.00

Flag question

For the following grouped frequency distribution

Class	0 – 5	6 – 11	12 – 17	18 - 23
frequency	2	8	7	3

The number of observations that lie below 8.5 is

a) 10

b) 8

c) 14

d) 6

e) 19

Which of the following are true statements?

I) The variance is the square root of the standard deviation.

II) The standard deviation is zero only when all values are the same.

III) The standard deviation is strongly affected by outliers.

a) I and II

b) I and III

c) I, II and III

d) II, and III

e) None of the above gives the complete set of true responses.

I) The variance is strongly affected by outliers

II) The standard deviation is zero only when all values are the same.

III) The variance is the square root of the standard deviation.

a) I and II

b) I and III

c) I, II and III

d) II, and III

e) None of the above gives the complete set of true responses.

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Flag question

In a distribution 0f 160 values with a mean of 72, at least 120 fall within the interval (67, 77) . Approximately the percentage of values that should fall in the interval (64.5, 79.5) is :

a) 75%
b) 93.75%
c) 88.88%
d) 96%
e) 55.55%

- a)
- b)
- c)
- d)
- e)

Clear my choice

Next page

Quiz navigation

1 2 3 4 5 6 7 8 9 10

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	59.8	67

Which of the following conclusions can be drawn from the data?

I) The mean is less than 44.5.
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III) Approximately 50% of the scores lie between 31.2 and 59.8.

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For the following grouped frequency distribution

Class	0 – 5	6 – 11	12 – 17	18 - 23
frequency	2	8	7	3

The number of observations that lie below 21.5 is

a) 19

b) 8

c) 6

d) 14

e) 10

5)

https://lmsystem.ju.edu.jo/mod/quiz/attempt.php?attempt=175752&cmid=275

There are three children in a room, ages five, six and seven. If a six-year-old child enters the room, then

a) The mean age will stay the same but the variance will increase

b) The mean age and variance will stay the same

c) The mean age will stay the same but the variance will decrease

d) The mean age and variance will increase

e) The mean age and variance will decrease

a)
b)
c)
d)
e)

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22	31.2	44.5	59.8	67

Which of the following conclusions can be drawn from the data?

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a) I only
b) II only
c) III only
d) I and III only
e) II. and III only

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In a distribution 0f 160 values with a mean of 72, at least 120 fall within the interval (67, 77) . Approximately the percentage of values that should fall in the interval (64.5, 79.5) is :

a) 75%

b) 93.75%

c) 88.88%

d) 96%

e) 55.55%

Finish o

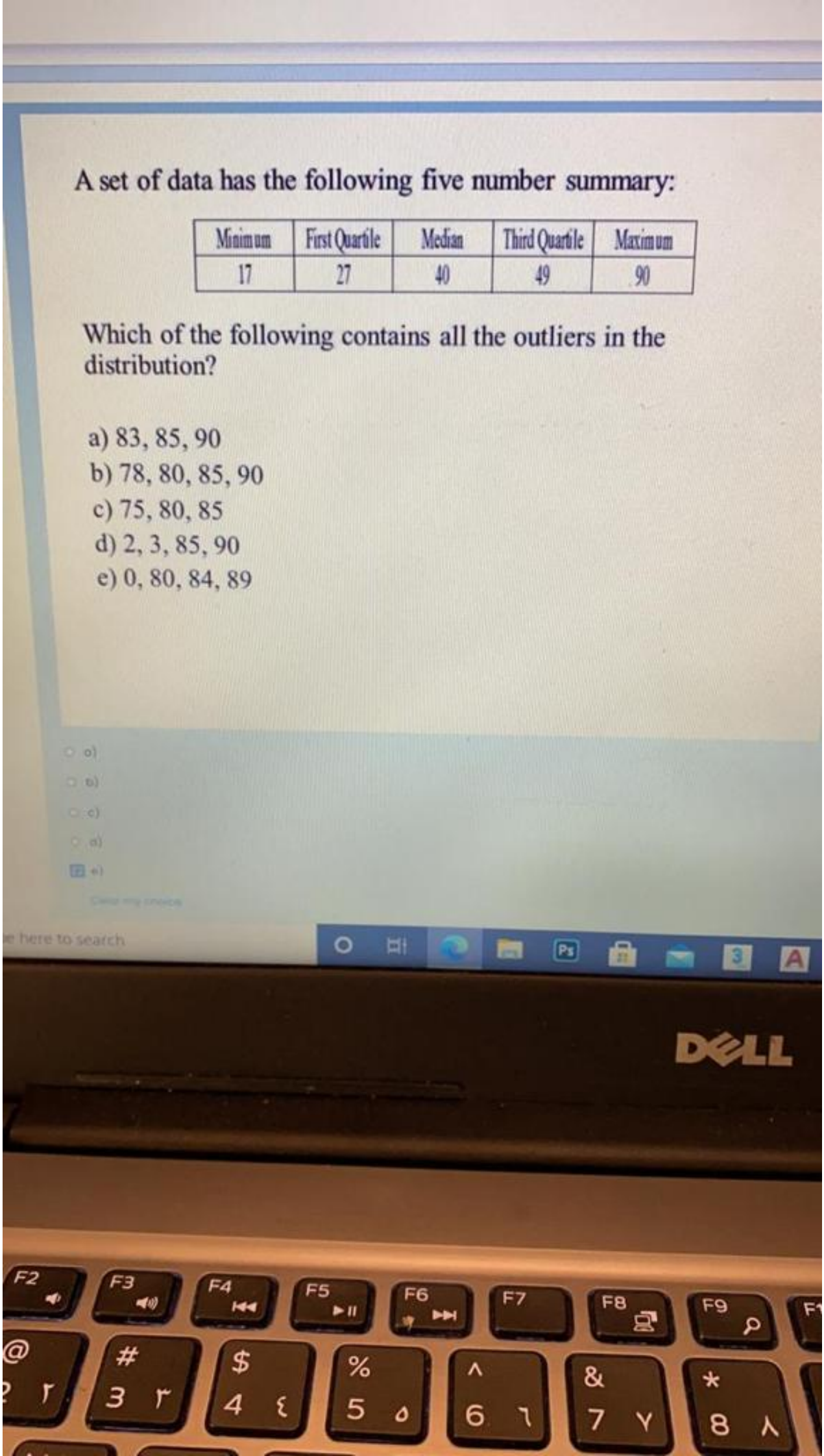
Time le

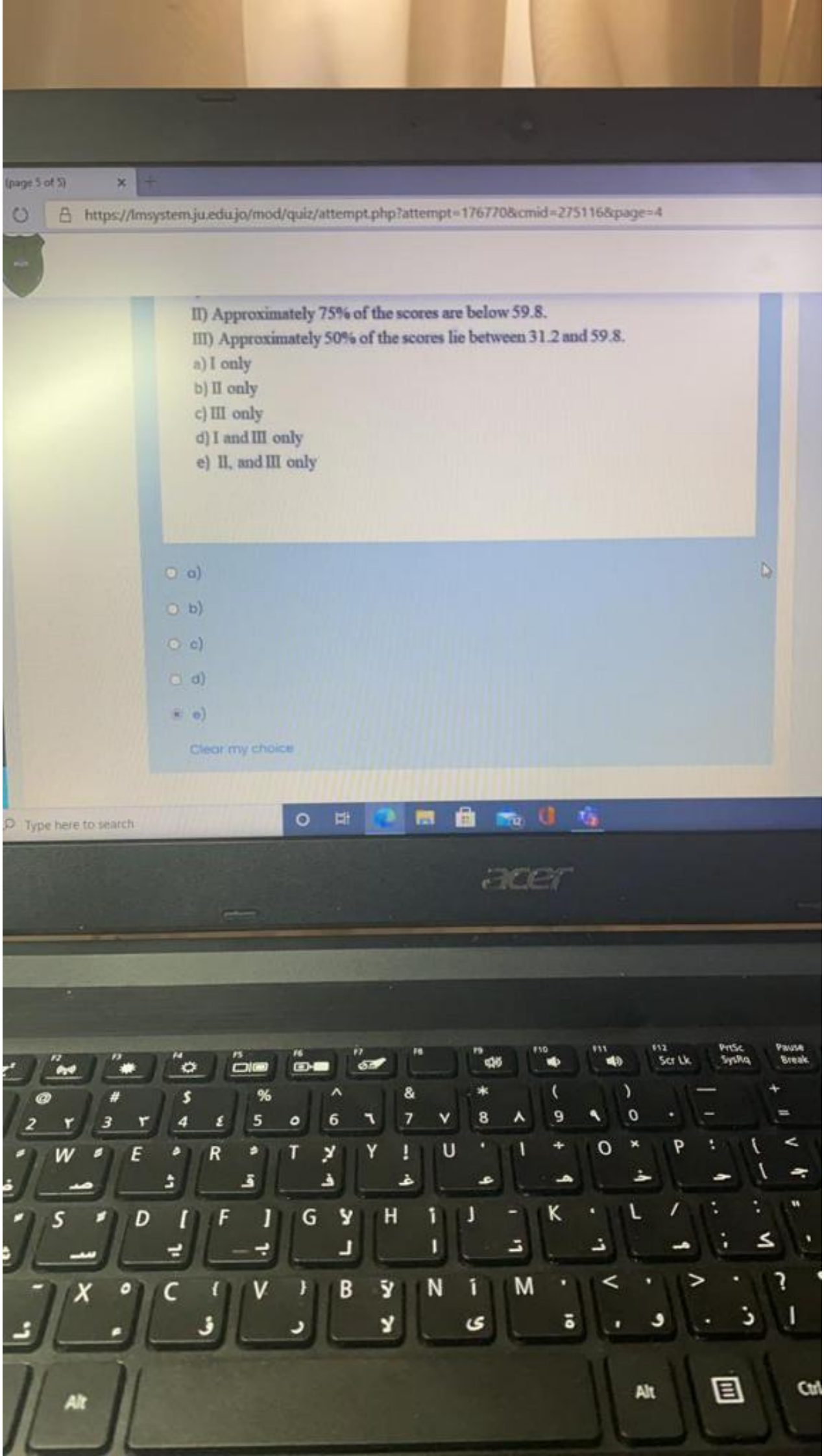
A set of data has the following five number summary:

Minimum	First Quartile	Median	Third Quartile	Maximum
17	27	40	49	90

Which of the following contains all the outliers in the distribution?

a) 83, 85, 90
b) 78, 80, 85, 90
c) 75, 80, 85
d) 2, 3, 85, 90
e) 0, 80, 84, 89




(page 5 of 5)
https://lmsystem.ju.edu.jo/mod/quiz/attempt.php?attempt=176770&cmid=275116&page=4
II) Approximately 75% of the scores are below 59.8.
III) Approximately 50% of the scores lie between 31.2 and 59.8.
a) I only
b) II only
c) III only
d) I and III only
e) II, and III only
a)
b)
c)
d)
e)
Clear my choice
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Question 10

Not yet answered

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Flag question

There are three children in a room, ages three, four, and five. If a four-year-old child enters the room, then

a) The mean age will stay the same but the variance will decrease

b) The mean age will stay the same but the variance will increase

c) The mean age and variance will stay the same

d) The mean age and variance will increase

e) The mean age and variance will decrease

https://lmsystem.ju.edu.jo/mod/quiz/attempt.php?attempt=175752&cmid=275116

In a distribution 0f 160 values with a mean of 72, at least 120 fall within the interval (67, 77) . Approximately the percentage of values that should fall in the interval (64.5, 79.5) is :

a) 75%
b) 93.75%
c) 88.88%
d) 96%
e) 55.55%

Not yet answered

Marked out of 2.00

Flag question

For the following grouped frequency distribution

Class	0 – 5	6 – 11	12 – 17	18 - 23
frequency	2	8	7	3

The number of observations that lie below 21.5 is

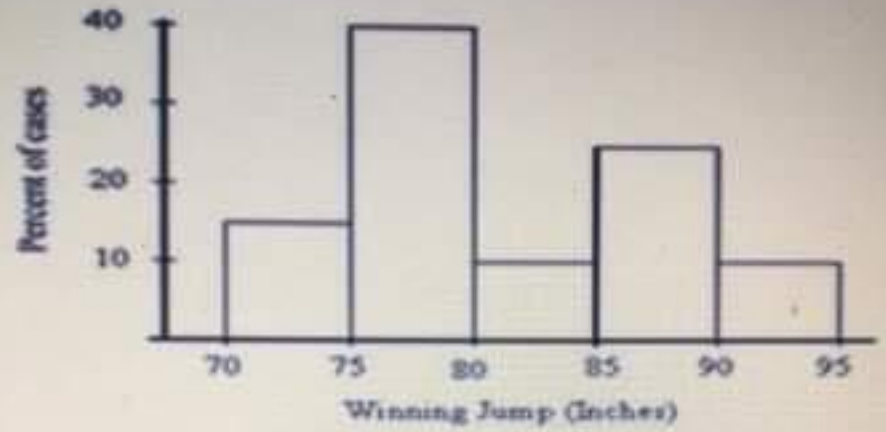
a) 19

b) 8

c) 6

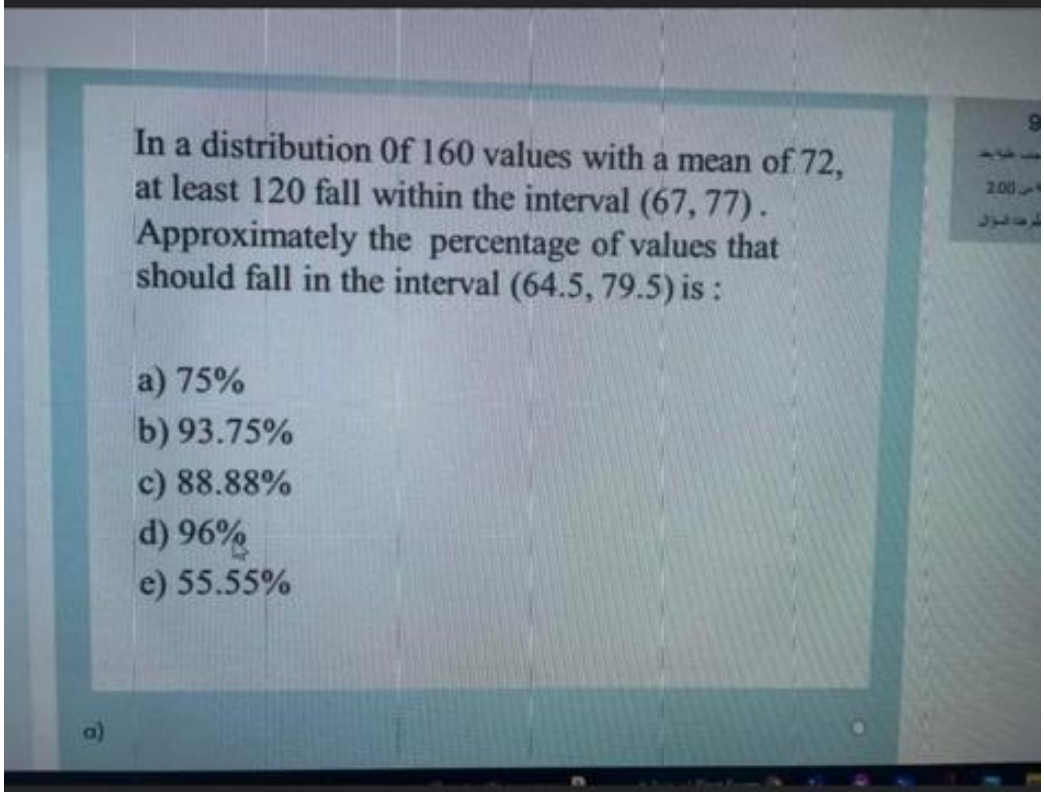
d) 14

e) 10



Above is the histogram of the gold medal winning high jumps for the Olympic Games. The 60th percentile of the histogram is approximately:

a) 75 inches
b) 81.25 inches
c) 92.5 inches
d) 82.5 inches
e) 85 inches


In a distribution 0f 160 values with a mean of 72, at least 120 fall within the interval (67, 77). Approximately the percentage of values that should fall in the interval (64.5, 79.5) is :

a) 75%
b) 93.75%
c) 88.88%
d) 96%
e) 55.55%

Question 9

Not yet answered

Marked out of 2.00

Flag question

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

I) Approximately 75% of the scores are above 31.2.
II The mean is less than 44.5.
III) Approximately 50% of the scores lie between 31.2 and 67.
a) I only
b) II only
c) III only
d) I and III only
e) II, and III only

○ a)

○ b)

1 2 3 4
5 6 7 8
9 10

Finish attempt ...

Time left 0:08:39

Which of the following are true statements?

I) The variance is the square root of the standard deviation.

II) The standard deviation is zero only when all values are the same.

III) The standard deviation is strongly affected by outliers.

a) I and II

b) I and III

c) I, II and III

d) II, and III

e) None of the above gives the complete set of true responses.

Question 5

Not yet answered

Marked out of 2.00

Flag question

If the heights of students has a symmetric distribution about the median Q2=170 cm
And the lower quartile Q1=155 cm, then the 75th percentile is equal to:

a) 15
b) 30
c) 50
d) 75
e) 185

- a)
- b)
- c)
- d)
- e)

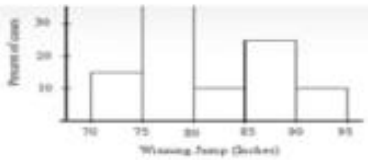
Clear my choice

Question 6

Not yet answered

Marked out of 2.00

Flag question



Above is the histogram of the gold medal winning high jumps for the Olympic Games. The 60^{th} percentile of the histogram is approximately:

a) 75 inches
b) 81.25 inches
c) 92.5 inches
d) 82.5 inches
e) 85 inches

- a)
- b)
- c)
- d)
- e)

Clear my choice

Question **4**

Not yet answered

Marked out of 2.00

Flag question

Suppose each employee in the company receives a $3000 raise for next year (each employee's salary is increased by $3000). The variance of the salaries for the employees will

a) be multiplied by $3000
b) increase by $3000

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Flag question

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	57.8	67

Which of the following conclusions can be drawn from the data?

I) The mean is less than 44.5.
II) Approximately 75% of the scores are below 57.8.
III) Approximately 50% of the scores lie between 22 and 57.8.
a) I only
b) II only
c) III only
d) I and III only
e) II, and III only

- a)
- b)
- c)
- d)
- e)

Clear my choice

Question 4

Not yet answered

Marked out of 2.00

Flag question

Which of the following are true statements?

Question 1

Not yet answered

Marked out of 2.00

Flag question

If the frequency curve of a set data has a bell-shape with mean 200 and variance 100, then the percentage of observations that lies in the interval (220,230) is approximately equals to:

a) 81.5%
b) 83.5%
c) 2%
d) 13.5%
e) 15.5%

- a)
- b)
- c)
- d)
- e)

Clear my choice

Question 2

Not yet answered

Marked out of 2.00

Flag question

Question 8

Not yet answered

Marked out of 2.00

Flag question

If the frequency curve of a set data has a bell-shape with mean 200 and variance 100, then the percentage of observations that lies in the interval (170,190) is approximately equals to:

a) 81.5%

b) 83.5%

c) 2%

d) 13.5%

e) 15.5%

Q10)

For a collection of 200 observations with mean 70 and standard deviation 6, the interval (70-a,70+a) contains at least 150 observations.

The value of a=

a) 12

b) 6

c) 2

d) 82

a) 76

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Flag question

A set of data has the following five number summary:

Minimum	First Quartile	Median	Third Quartile	Maximum
17	39	40	59	95

Which of the following contains all the outliers in the distribution?

a) 83, 85, 90
b) 17, 78, 80, 85, 90
c) 90, 92, 95
d) 2, 3, 85, 90
e) 0, 80, 84, 89

- a)
- b)
- c)
- d)
- e)

Clear my choice

Question 2

Not yet answered

Marked out of 2.00

Flag question

Question 8

Not yet answered

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Flag question

There are three children in a room, ages five, six and seven. If a six-year-old child enters the room, then

a) The mean age will stay the same but the variance will increase

b) The mean age and variance will stay the same

c) The mean age will stay the same but the variance will decrease

d) The mean age and variance will increase

e) The mean age and variance will decrease

- a)
- b)
- c)
- d)
- e)

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Question 3

Not yet answered

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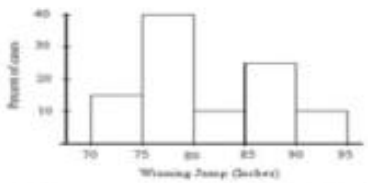

Above is the histogram of the gold medal winning high jumps for the Olympic Games. The 60th percentile of the histogram is approximately:

a) 75 inches
b) 81.25 inches
c) 92.5 inches
d) 82.5 inches
e) 85 inches

- a)
- b)
- c)
- d)
- e)

Question 4

Not yet answered

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Question 8

Not yet answered

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Flag question

There are three children in a room, ages five, six and seven. If a six-year-old child enters the room, then

a) The mean age will stay the same but the variance will increase

b) The mean age and variance will stay the same

c) The mean age will stay the same but the variance will decrease

d) The mean age and variance will increase

e) The mean age and variance will decrease

- a)
- b)
- c)
- d)
- e)

Clear my choice

Next page

Question 7

Not yet answered

Marked out of 2.00

Flag question

For the following grouped frequency distribution

Class	0 – 5	6 – 11	12 – 17	18 - 23
frequency	2	8	7	3

The number of observations that lie above 8.5 is

a) 10
b) 8
c) 6
d) 19
e) 14

- a)
- b)
- c)
- d)
- e)

Clear my choice

Question 8

Not yet answered

Marked out of 2.00

Q9)

If the IQR for the values of X is 8 and $Y=10-3X$, then the IQR for the values of Y equals

a) 24

b) - 14

c) 14

d) 34

e) - 24

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	59.8	67

Which of the following conclusions can be drawn from the data?

I) The mean is less than 44.5.

II) Approximately 75% of the scores are below 59.8.

III) Approximately 50% of the scores lie between 31.2 and 59.8.

a) I only

b) II only

c) III only

d) I and III only

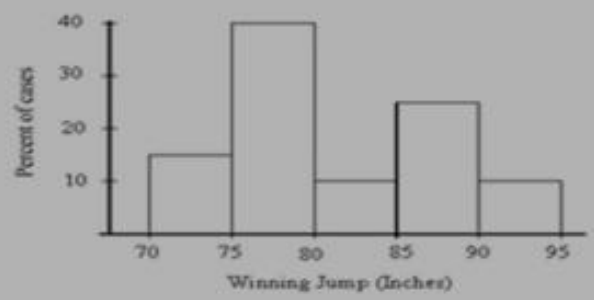
e) II. and III only

Question 5

Not yet answered

Marked out of 2.00

Flag question



Above is the histogram of the gold medal winning high jumps for the Olympic Games. The mean of the histogram is approximately:

a) 75 inches
b) 81.25 inches
c) 92.5 inches
d) 82.5 inches
e) 85 inches

a)

Q8)

The table below shows the marks gained in a test by a group of students.

Mark	1	2	3	4	5
Number of students	5	11	k	6	2

The median is 3 and the mode is 2.

The possible values of k are:

a) 7 and 8

b) 8, 9 and 10

c) 8 and 9

d) 9 and 10

e) 10 and 11

A data set produced the five number summary shown below. There are no outliers in this data set.

Minimum	First Quartile	Median	Third Quartile	Maximum
22	31.2	44.5	53.8	67

Which of the following conclusions can be drawn from the data?

I) Approximately 75% of the scores are above 31.2.
II The mean is less than 44.5.
III) Approximately 50% of the scores lie between 31.2 and 67.

a) I only
b) II only
c) III only
d) I and III only
e) II, and III only