

4 of 32

A(n) is a graph of the ordered pairs (x, y) of numbers consisting of the independent variable x and the dependent variable y .

- scatter plot
- frequency polygon
- ogive
- time series graph

منصف الأسئلة

>	3	2	1	•
9	8	7	6	5
<	14	13	12	11
19	18	17	16	15

5 of 32

"Having a large shoe size and having a high score." These events are said to be events

- mutually exclusive
- certain
- dependent
- independent



4

3

9

8



14

13

19

18



مصفح الأسئلة

السؤال التالي <

6 of 32

If the regression line equation is $y' = 3 - 0.27x$, then the correlation coefficient is.....

- positive
- 0.27
- negative
- 3

الأسئلة

>	4	3	2	1
>	9	8	7	6
<	14	13	12	11
<	19	18	17	16



متصفح الأسئلة

السؤال التالي <

السابق

7 of 32

Box 1 contains 2 red balls and 2 blue balls. Box 2 contains 3 red balls and 2 blue balls. A die is rolled. If the number is greater than 4, box 1 is selected and a ball is drawn. If the number is less than or equal 4, box 2 is selected and a ball is drawn. Find the probability of selecting a red ball.

- 1.1
- 0.833
- 0.389
- 0.567

متصفح الأسئلة

>	4	3	2	1	•
>	9	8	7	6	5
<	14	13	12	11	10
<	19	18	17	16	15



متصفح الأسئلة

السؤال التالي <

سؤال السابق

11 of 32

The chance of an event occurring is called.....

- probability
- probability experiment
- probability distribution
- outcome



^	9	8
	14	13
v	19	18
	24	23

[متصفح الأسئلة](#)[السؤال التالي <](#)

10 of 32

An urn contains brown balls and white balls. A person selects two balls without replacement. If the probability of selecting a brown ball and a white ball is 0.20, and the probability of selecting a brown ball on the first draw is 0.42, find the probability of selecting a white ball on the second draw, given that the first selected ball was a brown ball.

- 0.220
- 0.084
- 2.100
- 0.476

منصوح الأسئلة

>	9	8	7	6	5
>	14	13	12	11	10
<	19	18	17	16	15
<	24	23	22	21	20

9 of 32

If (x) is the number of exercising hours and (y) is the weight, choose the regression line equation that represents the following statement: When the exercising hours increase 1 unit, the weight decreases (1.32) kg on average.

- $y' = 4 - 1.32x$
 $y' = -1.32 + 4x$
 $y' = 1.32 - 4x$
 $y' = -4 + 1.32x$

متصفح الأسئلة

>	4	3	2	1	•
<	8	7	6	5	
>	14	13	12	11	10
<	19	18	17	16	15



The grades obtained by five students in both STAT and MATH exams are shown in the following table:

STAT	A	C	F	B	D
MATH	A	B	F	C	D

Compute Spearman rank correlation coefficient.

- 0.9
- 0.9
- 0.1
- 0.1

متصفح الأسئلة

>	4	3	2	1	•
	9	8	7	6	5
<	14	13	12	11	10
	19	18	17	16	15

متصفح الأسئلة

السؤال التالي <

سؤال السابق

12 of 32

How many different ways can 5 basketball players and 4 football players be selected from 7 basketball players and 6 football players?

- 36
- 907,200
- 0.441
- 315

منصفح الأسئلة

9	8	7	6	5
14	13	12	11	10
19	18	17	16	15
24	23	22	21	20

Second Exam STAT 110 Second Semester 1437-1438

13 of 32

The table below represents a selection of snacks purchased at a cinema according to gender:

	Hot dog	Peanuts	Popcorn	Total
Men	5	7	6	18
Women	4	3	5	12
Total	9	10	11	30

If a customer is selected, find the probability that the customer is a woman or purchased peanuts

- 0.73
 0.1
 0.3
 0.63

صفح الأسئلة

>	9	8	7	6	5
>	14	13	12	11	10
>	19	18	17	16	15
>	24	23	22	21	20



صفح الأسئلة

السؤال التالي <

السابق >

Second Exam STAT 110 Second Semester 1437-1438

14 of 32

A committee contains 8 members, 3 of which are men. If 3 members are selected at random, find the probability that one of them is a man.

- 0.179
- 0.375
- 0.536
- 0.232

متصفح الأسئلة

>	9	8	7	6	5
<	14	13	12	11	10
<	19	18	17	16	15
	24	23	22	21	20

The table below represents the college degrees awarded in a recent academic year according to gender.

	Bachelor	Master	Doctorate	Total
Men	4	8	4	16
Women	3	4	2	9
Total	7	12	6	25

If a person is selected, find the probability that the person is a woman given that she has a master degree.

- 0.160
 0.360
 0.333
 0.444

متصفح الأسئلة

^	14	13	12	11	10
	19	18	17	16	15
v	24	23	22	21	20
	29	28	27	26	25



متصفح الأسئلة

السؤال التالي <

سؤال السابق

Second Exam STAT 110 Second Semester 1

17 of 32

Which of these cannot be considered a correlation coefficient?

- 1.89
- 0.89
- 0
- 0.89



^	14	13	12
	19	18	17
v	24	23	22
	28	28	27



متصفح الأسئلة

السؤال التالي <

Second Exam STAT 110 Second Semester 1437-1438H

16 of 32

A recent study found that 40% of Americans suffer from great stress. If 3 people are selected at random, find the probability that all of them suffer from great stress.

- 0.216
- 0.784
- 0.936
- 0.064


 منصف الأسئلة

14	13	12	11	10
19	18	17	16	15
24	23	22	21	20



منصف الأسئلة

السؤال التالي >

< السؤال السابق

Second Exam STAT 110 Second Semester 1437-1438H

18 of 32

In a club there are 5 women and 4 men. If a committee of 3 people is selected, find the probability that at least one of them is a man.

- 0.048
- 0.881
- 0.952
- 0.119



متصفح الأسئلة

^	14	13	12	11	10
	19	18	17	16	15
v	24	23	22	21	20
	28	29	30	31	32



متصفح الأسئلة

السؤال التالي <

السؤال السابق

How many ways can 6 employees be seated on a stage?

- 1
- 720
- 6
- 46,656

19	18
24	23
29	28



21 of 32

If A and B are mutually exclusive events with $P(A)=0.25$ and $P(A \text{ or } B)=0.4$, then find $P(B)$.

- 0.15
- 0.6
- 0.1
- 0.65

	الأسئلة			
^	19	18	17	16
	24	23	22	21
v	29	28	27	26



متصفح الأسئلة

السؤال التالي <

ما قبل

22 of 32

A school district contains 4 elementary schools, 5 middle schools, and 6 high schools. If two schools are selected at random without replacement, find the probability that both of them are elementary schools.

- 0.250
- 0.057
- 0.167
- 0.071

متصفح الأسئلة

^	19	18	17	16	15
⌂	24	23	22	21	20
v	29	28	27	26	25



متصفح الأسئلة

السؤال التالي <

السؤال السابق

23 of 32

When we study the relationship between the age of a house and its price, the correlation coefficient could be:

- 0.8
- 0.9
- 0
- 0.05

متصفح الأسئلة

19	18	17	16	15
24	23	22	21	20
29	27	26	25	



متصفح الأسئلة

السؤال التالي <

> السؤال السابق

The following data are recorded:

$$n = 10, \sum x = 116, \sum y = 70, \sum xy = 50, \text{ and } \sum x^2 = 120$$

The equation of the regression line is:

- $\hat{y} = -0.212 + 0.622 x$
- $\hat{y} = 0.622 - 0.212 x$
- $\hat{y} = -7.056 + 2.407 x$
- $\hat{y} = 2.407 - 7.056 x$

19	18	17
24	23	22
29	28	27
		32



متصفح الأسئلة

السؤال التالي <

27 of 32

Answer the attached question:

The following data are recorded:

$$n = 10, \sum x = 116, \sum y = 70, \sum xy = 50, \text{ and } \sum x^2 = 120$$

The equation of the regression line is:

منصوح الأسئلة

19	18	17	16	15
24	23	22	21	20
29	28	27	26	25
		32	31	30

منصوح الأسئلة

السؤال التالي <

السؤال السابق

25 of 32

Find the sample space for tossing three coins.

- $S = \{H, T\}$
- 3
- $S = \{HHH, HHT, HTH, THH, TTH, THT, HTT, TTT\}$
- 8

منصوح الأسئلة			
19	18	17	16
24	23	22	21
29	28	27	26
		32	31



منصوح الأسئلة

السؤال التالي <

السابق

Second Exam STAT 110 Second Semester 1437-

24 of 32

If an event E cannot occur, then its probability equals:

- $0 \leq P(E) \leq 1$
- 0
- 0.5
- 1

الأسئلة

19	18	17	16
24	23	22	21
28	27	26	

منصفح الأسئلة

السؤال التالي <

سابق

28 of 32

Cards are numbered from 1 to 10. If a card is selected randomly and the number of it is noted, then it is replaced and a second card is selected, find the probability of getting an even number and an odd number.

- 0.278
- 1
- 0
- 0.25

متصفح الأسئلة

19	18	17	16	15
24	23	22	21	20
29	28	27	26	25
		32	31	30



متصفح الأسئلة

السؤال التالي <

سؤال السابق

29 of 32

If the correlation coefficient between two variables equals (-0.12) , this means that the relationship between the two variables is:

- strong negative
- weak positive
- weak negative
- strong positive

متصفح الأسئلة

	19	18	17	16	15
>	24	23	22	21	20
	29	28	27	26	25
<			32	31	30



متصفح الأسئلة

السؤال التالي <

سؤال السابق

30 of 32

90% of electronic games players play online. If 3 players are selected at random, find the probability that at least one does **not** play online.

- 0.271
- 0.999
- 0.729
- 0.001

متصفح الأسئلة

	19	18	17	16	15
^	24	23	22	21	20
■	29	28	27	26	25
v			32	31	30



متصفح الأسئلة

السؤال التالي <

السؤال السابق

31 of 32

The value of the correlation coefficient must be:

- $0 \leq r \leq 1$
- $-1 \leq r \leq 0$
- $-\infty \leq r \leq \infty$
- $-1 \leq r \leq 1$

منصف الأسئلة

	19	18	17	16	15
^	24	23	22	21	20
	29	28	27	26	25
v			32	31	30



منصف الأسئلة

السؤال التالي <

: السؤال السابق



32 of 32

If a die is rolled one time, find the probability of getting a number greater than 2 or an odd number.

- 0.833
- 0.333
- 1
- 1.167

منصف الأسئلة

	19	18	17	16	15
^	24	23	22	21	20
	29	28	27	26	25
v			32	31	30



منصف الأسئلة

السؤال التالي <

السؤال السابق