

المملكة العربية السعودية

وزارة التعليم

MINISTRY OF EDUCATION



لكل المهتمين و المهتمات
بدروس و مراجع الجامعية

هام

مدونة المناهج السعودية eduschool40.blog

Name:	ID #:	Section:
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You have 40 questions. You have 120 minutes to solve the exam. Please mark all your answers on the answer sheet provided to you. Make sure that the answer sheet form matches the question form. You have to submit both question paper and answer sheet but **only answer sheets will be graded**. Good luck

Choose the **best answer** for each of the following questions:

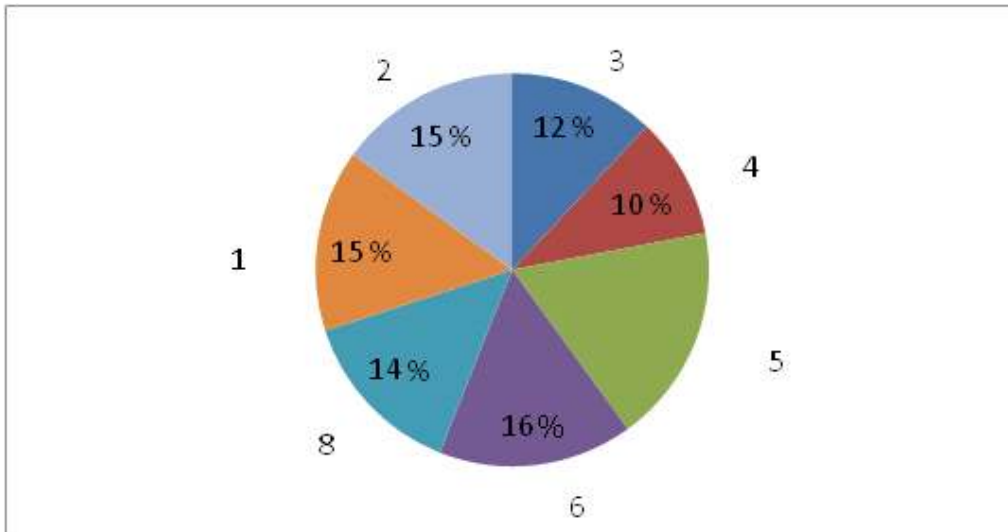
Use the following to answer questions 1-3:

x	-8	2	4
$P(x)$	0.33	p	0.12

- The mean of the distribution is equal to ...
A) -0.666667 B) -1.06 C) 1 D) -2.16
- The sample size is ...
A) 3 B) 1 C) Cannot be determined D) -2
- The value of p is equal to ...
A) 0.88 B) 0.55 C) 0.67 D) 0
- If the variance of a probability distribution is 23.4, what is the standard deviation?
A) 11.7 B) 4.837355 C) 547.56 D) 46.8
- If a set of 13 numbers has standard deviation 16, then its variance is ...
A) 4.44. B) 1.23. C) 4.00. D) 256.00.
- What type of distributions is the normal distribution?
A) Discrete. C) Continuous.
B) Neither discrete nor continuous. D) Discrete and continuous.
- A researcher wishes to select the top 14% of students for his study. If the grades of students is normally distributed with mean 85 and standard deviation 9, the lowest grade that allows a student to participate in the study is ...
A) 88.61 B) 94.72 C) 74.23 D) 81.4
- In a certain school, it is known that 33% of instructors are using e-mail to send messages. For a sample of 12 instructors, find the probability that exactly 6 of them are using e-mail.
A) 0.892055 B) 0.33 C) 0.107945 D) 0.5
- One hundred students are selected randomly from 1000 students using a computer random generation numbers. The sampling method is ...
A) stratified B) random C) cluster D) systematic

10. The probability is 0.8 that a person shopping at a certain store will spend **less** than \$200. For a group of size 55, find the mean number of customers who spend **more** than \$200.
A) 55 B) 68.75 C) 44 D) 11

Use the following to answer questions 11-13:



11. The cumulative percentage for the third part is ...
A) 52% B) 30% C) 42% D) 15%
12. The degree of the third part is ...
A) 57.6 B) 54 C) 43.2 D) 36
13. The missing percentage is ...
A) 15% B) 17% C) 16% D) 18%

Use the following to answer questions 14-17:

In a medical study, the mean systolic blood pressure is 117 and the standard deviation is 6.

14. The probability that the mean of systolic blood pressure for a sample of 55 patients will be less than 118 is ...
A) 0.4325 B) 0.8925 C) 0.1075 D) 0.5675
15. The probability that a person will have a systolic blood pressure more than 117 is ...
A) -0.5 B) 0.4299 C) 0.5 D) 0
16. The probability that a person will have a systolic blood pressure greater than 120 is ...
A) 0.1915 B) 0.8085 C) 0.6915 D) 0.3085
17. The probability that a person will have a systolic blood pressure between 115 and 120 is ...
A) -0.3208 B) 0.6915 C) 0.3208 D) 0.3707

Use the following to answer questions 18-19:

The medal distribution from the 2004 Olympics Games for top countries is shown below:

Countries	Gold	Silver	Bronze	Total
United States	35	39	29	103
Russia	27	27	38	92
China	32	17	14	63
Australia	17	16	16	49
Others	133	136	153	422
Total	244	235	250	729

18. The probability that the winner was from Australia, given that he won a gold medal is ...
A) 0.1107. B) 0.0697. C) 0.1311. D) 0.1434.
19. The probability that the winner won the gold medal, given that the winner was from the United States is ...
A) 0.3469. B) 0.5079. C) 0.3398. D) 0.2935.
20. A company manufactures batteries in groups of 26 and there is a 16% rate of defects. Find the standard deviation for the number of defects per group.
A) 186.933 B) 34944 C) 3.494 D) 1.869
21. The braking time of a car is example of ... variable.
A) ordinal B) continuous C) nominal D) discrete
22. The mode is one of the measures of ...
A) dispersion. B) skewing. C) correlation. D) central tendency.
23. A correlation coefficient of 0.78 would mean that ...
A) the values of x increase as the values of y decrease.
B) the values of x increase as the values of y increase.
C) the values of x decrease as the values of y increase.
D) there is no relationship between x and y.
24. How many 6-digit numbers can be formed using the digits 0, 1, 2, 3, 4, 5, 6, 7 if repetition of digits is not allowed?
A) 28 B) 20160 C) 7 D) 5040
25. All the following are the measures of central tendency EXCEPT the ...
A) median. B) midrange. C) range. D) mean.
26. The mean of a normal probability distribution is 532 and the standard deviation is 5. About 95 percent of the observations lie between what two values?
A) 512 and 552 B) 527 and 537 C) 522 and 542 D) 517 and 547
27. Describe which measure of position was probably used "One-half of the factory workers make more than \$10 per hour."
A) IQR B) Q2 C) Q1 D) Q3

28. Choosing 7 people (without replacement) from a group of 35 people, of which 15 are women, keeping track of the number of men chosen. Then, the procedure ...
- A) does not result in a binomial distribution because there are more than two outcomes for each trial.
 - B) results in a binomial distribution.
 - C) does not result in a binomial distribution because the trials are not independent.
 - D) does not result in a binomial distribution because there are too many trials.
29. An airline estimates that 98% of people booked on their flights actually show up. If the airline books 81 people on a flight for which the maximum number is 79, what is the probability that the number of people who show up will exceed the capacity of the plane?
- A) 0.194676 B) 0.516487 C) 0.483513 D) 0.321811
30. The range of the data set (4, -5, 0, 6, -10) is ...
- A) 6 B) 16 C) 14 D) -14
31. The type of graph that represents the data by using vertical bars of various heights to indicate frequencies is ...
- A) pie graph B) time series graph C) histogram D) stem and leaf plot
32. If the equation for the regression line is $y = -2x + 5$, then the sign of the correlation coefficient between the two variables ...
- A) is positive. B) can not be determined, C) is -2. D) is negative.

Use the following to answer questions 33-35:

The blood type of a sample of 111 patients are shown in the following table:

Blood Type	No. of patients
A	16
B	24
AB	50
O	21
Total	111

33. The type of data is ...
- A) discrete. B) nominal. C) ordinal. D) continues.
34. The range ...
- A) Cannot be calculated B) is 22.5. C) is 8. D) is 16.
35. The mode ...
- A) is 111. B) Cannot be calculated. C) is blood type AB. D) is 50.
36. A contractor is considering a sale that promises a profit of \$52823 with a probability of 0.6 or a loss (due to bad weather, strikes, and such) of \$16928 with a probability of 0.4. What is the expected profit?
- A) \$38465. B) \$14765.8. C) \$24922.6. D) \$31693.8.
37. A gardener has 43 clients, 24% of whom are businesses. Find the number of business clients.
- A) 1032 clients. B) 43 clients. C) 10 clients. D) 24 clients.

- 38.** A class consists of 56 women and 59 men. If a student is randomly selected, what is the probability that the student is a man?
A) 0.0179 **B)** 0.513 **C)** 0.487 **D)** 0.0169
- 39.** If the probability that a new drug will be successful is 0.898, then the probability that it will not be successful is ...
A) 0.898. **B)** 0.102. **C)** 1. **D)** 0.
- 40.** The standard deviation of the sample means will be ... the standard deviation of the population.
A) smaller than **B)** equal to **C)** larger or smaller than **D)** larger than

Good luck
Stat 110 Team

Answer Key

1. B
2. C
3. B
4. B
5. D
6. C
7. B
8. C
9. B
10. D
11. C
12. C
13. D
14. B
15. C
16. D
17. C
18. B
19. C
20. D
21. B
22. D
23. B
24. B
25. C
26. C
27. B
28. C
29. B
30. B
31. C
32. D
33. B
34. A
35. C
36. C
37. C
38. B
39. B
40. A

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Choose the **best answer** for each of the following questions:

1. Data that can be classified according to color are measured on what scale?
A) Ordinal B) Nomial C) Ratio D) Interval
2. A researcher divided subjects into seven groups according to nationality and then interviewed all members from four groups that have been selected randomly. What sampling method was the researcher using?
A) Systematic B) Stratified C) Random D) Cluster

Use the following to answer questions 3-6:

In the study of relationship between the number of absences X and the final grade Y of 32 students in the statistic class, the data are shown as follows

$$\sum X = 130, \sum Y = 649, \sum XY = 2288, \sum X^2 = 708 \text{ and } \sum Y^2 = 14865$$

3. The value of the Pearson correlation coefficient is ...
A) -0.775 B) -0.903 C) -0.458 D) -0.630
4. The value of the Pearson correlation coefficient means that there is a ... linear relationship between and the number of absences and the final grade.
A) very strong negative B) strong negative C) moderate negative D) weak negative
5. The final grade is called ... variable.
A) independent B) dependent C) predictor D) explanatory
6. The slope of the regression line is ...
A) -1.938 B) 7.728. C) 2.086 D) -2.086
7. The class width for the class boundary 5.05 - 8.15 is ...
A) 3.11 B) 3.1 C) 3.51 D) 3.5
8. A box contains 20 red balls and 22 black balls. 10 balls are selected with replacement. The standard deviation of the number of red balls that will be obtained is ...
A) 1.579 B) 1.505 C) 1.563 D) 1.576
9. A committee of 7 people is to be formed from 13 doctors and 15 engineers. Find the probability that the committee will consist of at least two doctors.
A) 0.940 B) 0.883 C) 0.938 D) 0.973

10. The z value that is corresponding to a number above the mean is ...
A) always positive. B) always negative. C) mostly positive. D) mostly negative.
11. A survey found that the microwave ovens have an average life of 2 years with a standard deviation of 0.5 year. Assume the variable is normally distributed. What percent of microwave ovens would be replaced if a warranty of 21 months were given?
A) 6.68% B) 30.85% C) 93.32% D) 69.15%

Use the following to answer questions 12-16:

The monthly income, X , of a family in a given city is normally distributed with mean \$1666 and standard deviation \$674.

12. The standard error of the mean for a random sample of size 34 is ...
A) 121.328 B) 115.590 C) 117.328 D) 123.055
13. The probability that a person selected at random earns a monthly income greater than \$2150
A) 0.7358 B) 0.2358 C) 0.7642 D) 0.2642
14. If a random sample of size 32 is selected at random, find the probability that the mean income of the sample is between \$1515 and \$1818
A) 0.0017 B) 0.3997 C) 0.3980 D) 0.7977
15. The probability that a person selected at random earns a monthly income between \$1300 and \$3100
A) 0.6888 B) 0.2054 C) 0.2780 D) 0.4834
16. The probability that a person selected at random earns a monthly income less than \$1200
A) 0.2451 B) 0.2549 C) 0.7549 D) 0.5451

Use the following to answer questions 17-19:

Use the following probability distribution to answer the following three questions.

X	1	2	5	7	9
$P(X)$	0.125	0.025	0.125	0.573	0.152

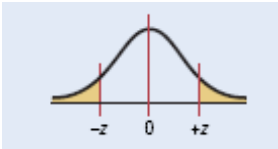
17. The value of the sample size ...
A) is 5 B) cannot be determined C) is 24 D) is 1
18. The value of the mean for the previous probability distribution ...
A) cannot be determined B) is 4.8 C) is 6.179 D) is 1/5
19. The value of the variance for the previous probability distribution ...
A) is 4.830 B) cannot be determined C) is 2.358 D) is 5.559
20. Which measures are mostly affected by outliers?
A) Mode and median B) Mean and median C) Mode and range D) Range and variance

Use the following to answer questions 21-22:

Two dice are rolled. Let X represents the summation of the two faces that will appear.

		Die 1					
		X	1	2	3	4	5
Die 2	1	2	3	4	5	6	7
	2	3	4	5	6	7	8
	3	4	5	6	7	8	9
	4	5	6	7	8	9	10
	5	6	7	8	9	10	11
	6	7	8	9	10	11	12

21. The probability of $X \leq 1$ is ...
 A) 0 B) 0.056 C) 1 D) 0.065
22. The probability of $X \geq 8$ is ...
 A) 0.417 B) 0.278 C) 0.583 D) 0.722
23. Find the value of z such that the shaded tail areas equals 0.011



- A) 2.43 B) 2.54 C) 2.17 D) 2.29
24. The number of trials in a binomial experiment
 A) must be fixed B) are unlimited C) are independent D) are dependent

Use the following to answer questions 25-26:

Let X be a normally distributed random variable with mean 18 and a standard deviation 10. Use this information to find the value of a such that

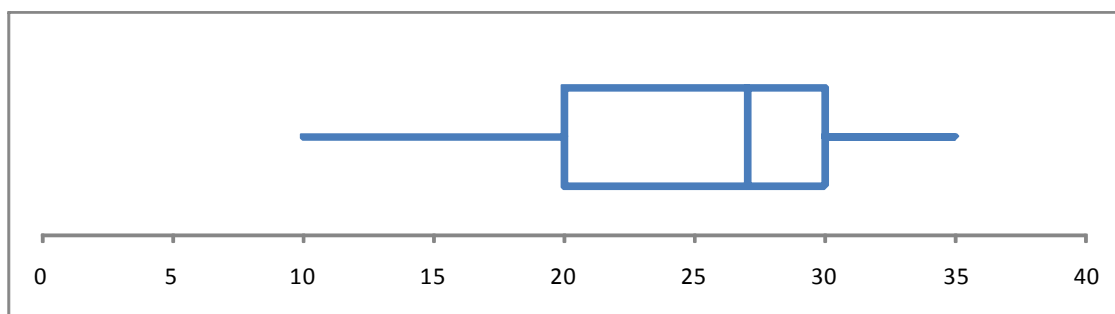
25. $P(X < a) = 0.3085$
 A) 23 B) 22 C) 14 D) 13
26. $P(a < X < 20) = 0.1586$
 A) 16 B) 14 C) 13 D) 11
27. A researcher stood at a busy intersection to see if the color of the automobile that a person drives is related to running red lights. The type of study used here is ... study.
 A) convenience B) observational C) experimental D) quasi-experimental
28. A measure obtained from population data is called a(n) ...
 A) parameter. B) sample. C) population. D) statistic.
29. "A distribution using the means computed from all possible random samples of a specific size taken form a population." The previous statement is the definition of
 A) empirical distribution B) central limit theorem C) sampling distribution D) sampling error

30. Six different summer theater actors were ranked by male and female patrons on the basis of diction and appearance. The data are shown here (1 is the highest rating).

Actors	A	B	C	D	E	F
Males	6	3	2	1	5	4
Females	4	5	1	3	6	2

The Spearman rank correlation coefficient (r_s) equals ...

- A) -0.029 B) 0.486 C) 0.657 D) -0.200
31. Which is **not** a property of the standard normal distribution?
 A) It is bell-shaped. B) It is symmetric. C) It is continuous. D) It is bimodal.
32. A die is rolled 4 times. The probability of getting a number 4 one time only is ...
 A) 0.402 B) 0.347 C) 0.278 D) 0.386
33. The midrange value for the following Boxplot is ...



- A) 20 B) 40 C) 22.5 D) 25
34. If the value $X=9$ has a z-score of -0.05 and standard deviation 8 in a data set, then the mean value ...
 A) cannot be determined B) is 9.4 C) is -8.6 D) is 8.6

Use the following to answer questions 35-38:

The following table shows the distribution of the blood type for 95 students:

Classes	A	B	O	AB
Frequency	37	12	35	11

35. The mode value
 A) cannot be calculated B) is 95 C) is 37 D) is A
36. The probability of selecting a student with AB blood type is ...
 A) 15 B) 0.842 C) 0.158 D) 0.116
37. In a pie graph, how many degrees would be needed to represent A?
 A) 53.05° B) 140.21° C) 87.16° D) 75.79°

38. The type of the frequency distribution is ... distribution.

- A) ungrouped frequency B) grouped frequency C) categorical frequency D) probability

Use the following to answer questions 39-40:

The table below shows the number of earned degrees in the year 2008 in a university by level and gender. A person who earned a degree in the year 2008 from this university is randomly selected. Find the probability of selecting someone who

		Male	Female
Level of Degree	Bachelor's	540	888
	Master's	250	155
	PhD's	150	50

39. earned a master's degree or is a female.

- A) 0.712 B) 0.602 C) 0.658 D) 0.661

40. is a female given that the person earned a bachelor's degree.

- A) 0.507 B) 0.521 C) 0.620 D) 0.622

Good luck
Stat 110 Team

Answer Key

1. B
2. D
3. D
4. C
5. B
6. A
7. B
8. A
9. A
10. A
11. B
12. B
13. B
14. D
15. A
16. A
17. B
18. C
19. D
20. D
21. A
22. A
23. B
24. A
25. D
26. A
27. B
28. A
29. C
30. B
31. D
32. D
33. C
34. B
35. D
36. D
37. B
38. C
39. D
40. D

Name:	ID #:	Section:
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Choose the best answer for each of the following questions:

1. For a normal curve with mean 8 and standard deviation 5, which of the following parts of the normal curve will have an area of approximately 95%?

A) from -2 to 18 B) from 8 to 23 C) from 3 to 13 D) from -7 to 23

Use the following to answer questions 2-4:

A box contains 16 mobiles is purchased. The probability that a mobile will be defective is 0.3. Use these information to answer the following three questions:

2. What is the probability of having 6 defective mobiles?

A) 0.164904 B) 0.000006 C) 0.005563 D) 0.000729

3. The variance of the number of defective mobiles is ...

A) 3.36 B) 4.8 C) 11.29 D) 1.83

4. The mean number of non-defective mobiles is ...

A) 1.83 B) 3.36 C) 4.8 D) 11.2

Use the following to answer questions 5-8:

The following table represents the cumulative relative frequency for 39 patients' height:

Class Boundary for heights	Cumulative Relative Frequency
4.5 – 9.5	0.1795
9.5 – 14.5	0.2051
14.5 – 19.5	0.2821
19.5 – 24.5	0.4615
24.5 – 29.5	0.7949
29.5 – 34.5	1

5. The class limit that has the largest frequency is ...

A) 29.5 - 34.5 B) 24.5 - 29.5 C) 30 - 34 D) 25 - 29

6. The sample size ...

A) cannot be determined. B) is 6. C) is 1. D) is 39.

7. The cumulative relative frequency of patients with heights less than or equal to 24 is ...

A) 0.4615 B) 0.7949 C) 24.5 D) 0.2821

8. The cumulative frequency for the second class ...
A) is 14.5. B) is 8. C) is 0.2051. D) can't be determined.

Use the following to answer questions 9-15:

The following data represents the temperature of seven consecutive days in a city:

$-7.5, -7.5, -7.5, -10.5, -7.5, -4.5, -7.5$

Use this data to answer the following seven questions.

9. The value of the median is ...
A) -7.5 B) 7.5 C) -10.5 D) -4.5
10. The value of the standard deviation is ...
A) 3 B) 134 C) 1.73 D) 11.6
11. The value of the mean is ...
A) -7.5 B) 58.8 C) 7.5 D) -58.8
12. The value of the range is ...
A) 0 B) 7 C) 6 D) -6
13. The value of the inter-quartile range (IQR) is ...
A) 3 B) -3 C) 0 D) 6
14. What can you say about the outliers?
A) Cannot be determined. C) There is one outlier.
B) There are two outliers. D) There is no outliers.
15. The value of the mode is ...
A) 7 B) -10.5 C) -4.5 D) -7.5
16. A store manager has 4 distinctive toothpastes, 2 distinctive toothbrushes and 3 distinctive mouthwashes and would like to arrange all of them in order on a shelf. In how many different ways can they be arranged?
A) 288 B) 24 C) 32 D) 362880
17. When 2 dice (6-sided each) are rolled, find the probability of getting a sum of 12.
A) $2/36$ B) $1/6$ C) $1/36$ D) $2/6$
18. "Grade letters (A, B, C, D, F)" is an example of ... level of measurement.
A) can not be determined B) a nominal C) an ordinal D) nominal and ordinal
19. If a variable has possible values $-4, -1, 7, 11$ and 13 , then this variable is ...
A) both a continuous and a discrete variable. C) a continuous variable.
B) neither a continuous nor a discrete variable. D) a discrete variable.
20. The best graph for displaying the birth weights data is the ...
A) bar chart. B) histogram. C) Pareto chart. D) pie graph.

21. In a multiple choice questions exam, the complement of guessing 14 correct answers on a 14-question exam is ...
A) guessing at least 1 correct answer. **C)** guessing six incorrect answers.
B) guessing at least 1 incorrect answer. **D)** guessing no incorrect answers.
22. What type of sampling is being employed if the population is divided into groups and a sample is chosen from some groups to be surveyed?
A) Systematic sampling. **B)** Random sampling. **C)** Stratified sampling. **D)** Cluster sampling.
23. For the class 10 - 20, the upper class limit is ...
A) 9.5 **B)** 20.5 **C)** 10 **D)** 20
24. In a club there are 7 teachers and 17 students. A committee of 2 teachers and 3 students is to be chosen. How many different possibilities are there?
A) 119 **B)** 14280 **C)** 42504 **D)** 701
25. In a medical study, it is always preferable for the researcher to choose his participants ...
A) in sequence. **B)** as carefully as possible. **C)** in order. **D)** randomly.
26. The probability of winning a car that priced at 85000 SAR is 0.006. The cost to enter the pull is 860 SAR. Then, the expected value of the gain is ...
A) -350 **B)** -344.84 **C)** 1359.68 **D)** 1364.84

Use the following to answer questions 27-30:

The following table represents the probability distribution of the number of boys in a sample of families:

X	0	1	2	3
P(X)	K	0.2	0.3	0.3

Use the information given to answer the following four questions:

27. What is the probability of getting at most 2 boys?
A) 0.3 **B)** 0.7 **C)** cannot be determined. **D)** 0.5
28. The probability that a family will have no boys (the value of **K**) ...
A) is 1. **B)** is 0. **C)** cannot be determined. **D)** is 0.2.
29. The standard deviation of the number of boys in a family ...
A) is 2.02 **B)** is 1.21 **C)** cannot be determined **D)** is 1.1
30. The mean number of boys in a family ...
A) is 1.5 **B)** is 1.7 **C)** is 4.1 **D)** cannot be determined.

Use the following to answer questions 31-32:

The following equation describes the relationship between two variables x and y:

$$y' = 6 - x$$

Use these information to answer the following two questions:

31. The relationship between x and y ...
A) is positive linear. B) is negative linear. C) cannot be determined. D) is not linear.
32. The value of the correlation coefficient between x and y is approximately ...
A) -0.4 B) 0 C) 0.4 D) 1

Use the following to answer questions 33-39:

The mean value for the scores of 5000 preparatory year students is 80. If we assume that the scores are normally distributed with standard deviation 5. Answer the following seven questions

33. What is the probability that a randomly selected student will have a score greater than 84?
A) 0.0228 B) 0.2119 C) 0.7881 D) 0.6554
34. What is the probability that a randomly selected student will have a score less than 84?
A) 0.7881 B) 0.2119 C) 0.6554 D) 0.0228
35. If a random sample of 36 students is selected, what is the probability that the **mean** score will be less than 78 **or** greater than 81?
A) 0.8767 B) 0.8849 C) 0.1233 D) 0.0082
36. If entry to the medical collage requires a test score in the upper 10.2%, what is the lowest acceptable score that would qualify a student to enter the medical college?
A) 84.05 B) 86.35 C) 91.45 D) 89.8
37. What is the percentage of students who have scores greater than 86?
A) 78.81% B) 88.49% C) 11.51% D) 65.54%
38. What is the probability that a randomly selected student will have a score between 72 and 85?
A) 0.8413 B) 0.7865 C) 0.0548 D) -0.7865
39. How many students will have scores between 76 and 90?
A) 530 B) 1060 C) 3827 D) 4886
40. If the standard deviation of a population is 50 and we take a sample of size 25, then the standard error (the standard deviation of the sample mean) is
A) 2.00 B) 5.00 C) 10.00 D) 250.00

THIS IS THE END OF THE EXAM
Stat 110 Team

Final Exam STAT 110 Second Semester 1437-1438H

How many times a die is rolled when the mean of the numbers greater than 4 that will be rolled = 20?

- 7
- 80
- 5
- 60

متصفح الأسئلة

20	28	27	26	25
34	33	32	31	30
39	38	37	36	35

متصفح الأسئلة

السؤال التالي <

سؤال السابق

Questionmark Perception licensed to King Abdul Aziz University



Final Exam STAT 110 Second Semester 1437-1438

It was reported that 68% of computer games were classified as "family and children." If 3 computer games were purchased at random, find the probability that at least one was "family and children."

- 0.314
- 0.686
- 0.033
- 0.967

سؤال الأسئلة

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

سؤال الأسئلة

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سؤال السابق

When the majority of the data values fall to the left of the mean, the distribution is said to be.....

- uniform
- left-skewed
- right-skewed
- symmetric

مصنع الأسئلة

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

الأسئلة السابقة < > الأسئلة التالية

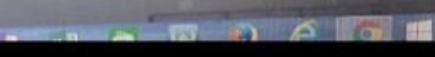
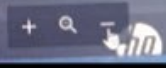
A survey found that one out of four people say they visit a doctor every month. If 5 people are selected at random, find the probability that exactly 2 will not visit a doctor every month.

- 0.563
- 0.009
- 0.264
- 0.088

صفحة الأسئلة

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

السؤال التالي < > السؤال السابق



For the following probability distribution, find the value of (K

X	0	1	2	3
P(X)	0.5	0.02	K	0.14

0.44

0.56

0.60

0.74

12 of 42

When we study the relationship between the person's age and his weight, which correlation coefficient should be used?

- Spearman only
- Cannot be determined
- Pearson or Spearman
- Pearson only

مستوح الأختيار

0	8	7	6	5
14	13	12	11	10
10	10	12	10	15
12	11	12	11	10

مستوح الأختيار

< السؤال التالي

> السؤال السابق

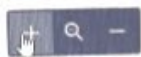
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12

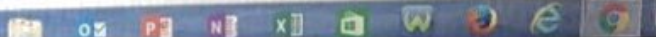
The value that occurs most often in a data set is called the.....

- midrange
- mean
- median
- mode



موقع الأستاذ

التالي >



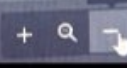
In a company 25% of the employees got a master degree, 54% of the employees got a bachelor degree, and the others got a doctorate degree. If an employee is selected at random, find the probability that he has not gotten a doctorate degree.

- 1
- 0.135
- 0.79
- 0.21

منصوح الاستله

السؤال التالي <

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



The following plot represents the time it takes 17 students to get to school
Find the mode.

0		6	7	7	8	9		
1		0	5	5	5	5	7	7
2		1	2	3	3	6		



متصفح الأسئلة

سؤال التالي <

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Final Exam STAT 110 Second Semester 1437-1438H

of 42

A survey found that one out of four children eat chocolate daily. If 6 children are selected at random, find the probability that exactly 4 will not eat chocolate daily.

- 0.020
- 0.297
- 0.316
- 0.033

نتيجة الأسئلة

0	8	7	6	5
14	13	12	11	10
10	18	17	16	15
24	22	23	21	20

نتيجة الأسئلة

السؤال التالي < السؤال السابق

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15 of 42

A city recorded its highest temperature at 80°F and its lowest at 27°F for a certain year. Use this information to find the lower and the upper class limit of the first class if you wish to construct a grouped frequency distribution with 10 classes.

- 27-33
- 27-37
- 27-31
- 27-32

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

السؤال التالي >



Final Exam STAT 110 Second Semester 1437-14

Approximately 28% of men have a type of color blindness. If 3 men are selected at random, find the probability that at least one has that type of color blindness.

- 0.978
- 0.373
- 0.627
- 0.022

من الأسئلة

29	28	27	26	25
34	33	32	31	30
39	38	37	36	35
42	41	40	39	38

السؤال التالي >

السؤال السابق <

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If the sample size is 40 and the variance is 64, then the standard deviation is:

- 6.3
- 8
- 4096
- 1.6

29
34
39

42

A student takes a 4 questions multiple choice exam with three choices for each question and each question. Find the probability of guessing at most 2 correct questions.

- 0.407
- 0.593
- 0.111
- 0.889

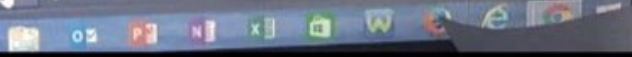
9	8	7
14	13	12
19	18	17
24	23	22

صفحة الأسئلة

السؤال التالي <



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The percentage of blood type (A) in a pie graph is 65%. The corresponding degree of the angle is:

- 65°
- 234°
- 0.2°
- 18°

سؤال الأسئلة

29	28	27	26
34	33	32	31
39	38	37	36
		42	41

مصنع الأسئلة

السؤال التالي < لسابق



of 42 | Check the outliers for the following data set: 17, 31, 32, 35, 39, 40, 41, 44, 62

- No outliers
- 17
- 62
- 17 and 62

29 28
34 33
39 38

السؤال التالي <

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2

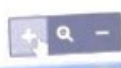
In a binomial experiment, the number of trials must be.....

- the same
- fixed
- infinite
- 2

Which of the following represents a random sample:

- Selecting every 10th customer to ask them about their opinion in the new product.
- Selecting three hospitals from all hospitals in Jeddah and asking all patients in them about the quality they receive.
- Selecting 20 teachers using random numbers to determine their salaries.
- Dividing students into groups according to their grades and then selecting 10 students from each group.

4	3
9	8
14	13
19	18



2 One thousand tickets are sold at \$2 each for an iPad valued at \$800. What is the gain if you purchase two tickets?

- 3.2
- 2.4
- 1.2
- 0.4

Final Exam STAT 110 Second Semester 1437-1438H

How many times a die is rolled when the mean of the numbers greater than 4 that will be rolled = 20?

- 7
- 80
- 5
- 60

متصفح الأسئلة

20	28	27	26	25
34	33	32	31	30
39	38	37	36	35

متصفح الأسئلة

السؤال التالي <

سؤال السابق

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Final Exam STAT 110 Second Semester 1437-1438

2) At a local university, 90% of first-year students have computers. If 3 students are selected at random, find the probability that none of them has a computer.

- 0.729
- 0.271
- 0.001
- 0.999

تمتصح الأسئلة

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

تمتصح الأسئلة < السؤال التالي > ال سابق

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When we study the relationship between the age of a house and its price, which correlation should be used?

- Pearson or Spearman
- Pearson only
- Cannot be determined
- Spearman only

4 3
9 8
14 13
19 18

السؤال التالي >

When we study the relationship between the number of smoking years and having a heart disease, the correlation coefficient could be:

- 0.8
- 0.07
- 0
- 0.9

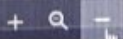
منصوح الأسئلة

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

منصوح الأسئلة

السؤال التالي <

السؤال السابق



42

For the following probability distribution, find the probability that X is more than or equal 3.

X	2	3	4	5
$P(X)$	0.3	0.31	0.19	0.2

- 0.70
- 0.39
- 0.19
- 0.31



متصفح الأسئلة

السؤال التالي <



42

Compute the mean for the following probability distribution:

X	0	1	5	6
P(X)	0.2	0.1	0.6	0.1

- 3
- 18.7
- 12
- 3.7



منصفح الأسئلة

سؤال التالي <



Final Exam STAT 110 Second Semester 1437-1438H

When we study the relationship between the number of studying hours and the weight of a student, the correlation coefficient could be:

- 0
- 1
- 0.9
- 0.8

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 <

السؤال السابق

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Final Exam STAT 110 Second Semester 1437-1438

12 In a company 33% of the employees got a master degree, 5% of the employees got a doctorate degree, and the others got a bachelor degree. If an employee is selected at random, find the probability that he has not gotten a bachelor degree.

- 0.017
- 1
- 0.38
- 0.62

صفحة الأسئلة

29	28	27	26	25
34	33	32	31	30
39	38	37	36	35



منصفح الأسئلة

السؤال التالي <

السابق >

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Final Exam STAY 110 Second Semester

9 of 42

If there was a weak negative relationship between two variables, then the value of the correlation coefficient could be:

- 0.7
- 0.61
- 0.8
- 0.10-

of 42

Which of these cannot be considered a probability?

- 58%
- 82%
- 0
- 0.17



Final Exam STAY 110 Second Semester

9 of 42

If there was a weak negative relationship between two variables, then the value of the correlation coefficient could be:

- 0.7
- 0.61
- 0.8
- 0.10-

5. The standard normal distribution is a normal distribution with

- A) mean = 1, standard deviation = 0
- B) mean = 0, standard deviation = 1
- C) mean = -1, standard deviation = 1
- D) mean = 1, standard deviation = 1

6. The average number of calories in a chocolate bar is 225. Suppose that the variable is approximately normally distributed with a standard deviation 10. Find the probability that a randomly selected chocolate bar will have less than 200 calories.

- A) 0.0062
- B) 0.9938
- C) 0.4938
- D) 0.0202

When we study the relationship between the age of a house and its price, which correlation should be used?

- Pearson or Spearman
- Pearson only
- Cannot be determined
- Spearman only

>	4	3
>	9	8
<	14	13
<	19	18



متصفح الأسئلة

السؤال التالي <

5 of 42

One thousand tickets are sold at \$2 each for an iPad valued at \$800. What is the expected gain if you purchase two tickets?

- 3.2
- 2.4
- 1.2
- 0.4



مصفح الأسئلة

< التالي

4
9
14
19

If 45% of students like statistics and 3 students are selected at random, find the probability that none of them likes statistics.

- 0.166
- 0.834
- 0.909
- 0.091

مصحح الأسئلة

4	5	6	7	8
9	10	11	12	13
14	15	16	17	18



11 of 42

A survey found that one out of four people say they visit a doctor every month. If 5 people are selected at random, find the probability that exactly 2 will not visit a doctor every month.

- 0.563
- 0.009
- 0.264
- 0.088

Handwritten red notes and a stick figure with a circled head and a checkmark next to it.

متصفح الأسئلة

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



16 of 42

Find the IQR from the following data: 12 20 5 6 18 32 30

- 27
- 12
- 14
- 18

صفح الأسئلة

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

مصنوع الأسئلة

السؤال التالي <

السابق



9 of 42

If there was a weak negative relationship between two variables, then the value of the coefficient could be:

- 0.7
- 0.01
- 0.8
- 0.10



متصفح الأسئلة

سؤال التالي <

9 of 42

If there was a weak negative relationship between two variables, then the value of the coefficient could be:

- 0.7
- 0.01
- 0.8
- 0.10



متصفح الأسئلة

سؤال التالي <

42

Which of the following represents a random sample:

- Selecting every 10th customer to ask them about their opinion in the new product.
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- Selecting 20 teachers using random numbers to determine their salaries.
- Dividing students into groups according to their grades and then selecting 10 students from each group.

4	3
9	8
14	13
19	18



متصفح الأسئلة

السؤال التالي <

16 of 42

Find the IQR from the following data: 12 20 5 6 18 32 30

- 27
- 12
- 24
- 18

صفح الأسئلة

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

مصنوع الأسئلة

السؤال التالي <

السابق



4 of 42

The value that occurs most often in a data set is called the.....

- midrange
- mean
- median
- mode

14 3
9 .8
14 13
10 18

منصوح الأسئلة < سؤاا البالى

In a company 25% of the employees got a master degree, 54% of the employees got a bachelor degree, and the others got a doctorate degree. If an employee is selected at random, find the probability that he has not gotten a doctorate degree.

- 1
- 0.135
- 0.79
- 0.21

الأسئلة

0	8	7	6
14	13	12	11
19	18	17	16
24	23	22	21

10 of 42

A student takes a 4 questions multiple choice exam with three choices for each question and each question. Find the probability of guessing at most 2 correct questions.

- 0.407
- 0.593
- 0.111
- 0.889

9	8	7
14	13	12
19	18	17
24	23	22



مصمم: الأستاذة

السؤال التالي <



17 of 42

When we study the relationship between the number of smoking years and having a heart disease, the correlation coefficient could be:

- 0.8
- 0.07
- 0
- 0.9

متصفح الأسئلة

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

متصفح الأسئلة < السؤال التالي > سؤال السابق

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2 One thousand tickets are sold at \$2 each for an iPad valued at \$800. What is the gain if you purchase two tickets?

- 3.2
- 2.4
- 1.2
- 0.4