

של ארץ ארע jirtykams.com/mood









Question 7

Time left 0:23:02

Not yet answered

Marked out of 1.00

▼ Flag question

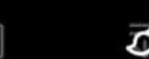
The sugar content of the syrup in canned peaches is normally distributed. A random sample of **n** =25 cans yields a sample standard deviation of **s**² = 23.04 milligrams². Calculate a 99% two-sided confidence interval for σ².

- a. [12.87, 50.93]
- b. [14.05, 44.59]
- o. [12.14, 55.93]
- d. [4.8, 12.73]

هذا شو؟















The life in hours of a 75-watt light bulb is **known to be normally** distributed with $\sigma = 15$ hours. A random sample of 22 bulbs has a mean life of $X_{Avg} = 1500$ hours.

Construct a 95% two-sided confidence interval on the mean life.

- a. [1193, 1206]
- b. [893, 906]
- o c. [1006, 1021]
- o d. [1493, 1506]

stion 1 yet berew rked out of

Flaa estion In health research, patients are tested for a gene that has been found to increase the risk for a disease. The probability that a person carries the gene is 0.2.

- i) What is the probability three or more people will have to be tested before two with the gene are detected?
- ii) How many people are expected to be tested before two with the gene are detected?
 - O a. i) 0.99
 - ii) 20
 - D. i) 0.94
 - 11) 8
 - O c. I) 0.90
 - ii) 13.33
 - Od. I) 0.96
 - 11) 10

Clear my choice



Quiz navigat







Finish attempt_











Samples of er Time left 0:06:33

three suppliers are classified for conformance to air-quality specifications. The results from 100 samples are summarized as follows:

Let A denote the event that a sample is from supplier 1, and let B denote the event that a sample does not conform to specifications. Events A and B are:

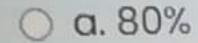
		Conforms		
		Yes	No	
		11	4	
Supplier	2	20	5	
	3	24	6	
	Total	55	15	

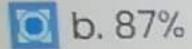
- a. Independent
- b. Dependent
- c. Mutually exclusive
- d. None of the above

For a normal population with known variance σ^2 , answer the following question:

What is the confidence level for the interval

 X_{Avg} -1.5 $\sigma/\sqrt{n} \le \mu \le X_{Avg}$ +1.5 σ/\sqrt{n}

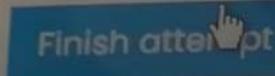




- O c. 92%
- O d. 98%

Clear my choice





Time left 0:08:21

A juice beverage machine is adjusted to release a certain amount of syrup into a chamber where it is mixed with carbonated water. A random sample of 25 beverages was found to have a mean syrup content of X_{Avg} 45ml and a standard deviation of s = 0.5 ml. Find a 95% CI on the mean volume of syrup dispensed.

- oa. [39.8, 40.2]
- O b. [44.8, 45.2]
- O c. [49.8, 50.2]
- Od. [29.8, 30.2]

Finish attempt ...



A juice beverage machine is adjusted to release a certain amount of syrup into a chamber where it is mixed with carbonated water. A random sample of 25 beverages was found to have a mean syrup content of X_{Avg} 45ml and a standard deviation of s = 0.5 ml. Find a 95% CI on the mean volume of syrup dispensed.

Of 2100 randomly selected cases of lung cancer, 650 resulted in death within 10 years. Using the point estimate of ρ obtained from the preliminary sample, what sample size is needed to be 95% confident that the error in estimating the true value of ρ is less than 0.03?

- o. 1008
- b. 961
- O c. 1048
- O d. 913



Time left 0:21:09

The life in hours of a 75-watt light bulb is known to be normally distributed with $\sigma = 15$ hours. A random sample of 22 bulbs has a mean life of $X_{AVg} = 900$ hours. Construct a 95% two-sided confidence interval on the mean life.

- o a. [893, 906]
- o b. [1493, 1506]
- O c. [1193, 1206]
- Od. [1006, 1021]



For a normal population with known variance σ², answer the following question:

What is the confidence level for the interval $1.75\sigma/\sqrt{n} \le \mu \le X_{Avg} + 1.75\sigma/\sqrt{n}$

- a. 92%
- b. 80%
- o c. 87%
- o d. 98%



Samples of emissions from three suppliers are classified for conformance to air-quality specifications. The results from 100 samples are summarized as follows:

Let A denote the event that a sample is from supplier 1, and let B denote the event that a sample does not conform to specifications. Events A and B are:

		Conforms			
		Yes	No	Total	
	1	11	4	15	
Supplier	2	20	5	25	
	3	24	6	30	
	Total	55	15	70	

- o a. Independent
- O b. Dependent
- O c. Mutually exclusive
- O d. None of the above

Not yet answered

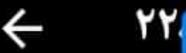
Marked out of 1.00

P Flag question In health research, patients are tested for a gene that has been found to increase the risk for a disease. The probability that a person carries the gene is 0.2.

- i) What is the probability three or more people will have to be tested before two with the gene are detected?
- ii) How many people are expected to be tested before two with the gene are detected?
 - O a. i) 0.94
 - ii) 8
 - O b. i) 0.99
 - ii) 20
 - O c.i) 0.96
 - ii) 10
 - Od. i) 0.90
 - ii) 13.33

A synthetic fiber used in manufacturing carpet has tensile strength that is normally distributed with a mean of 500 and a standard deviation of 25. Find the probability that a random sample of n = 20 fiber specimens will have a sample mean tensile strength that exceeds 505.

O a. 0.26



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Time left 0:37:11

In health research, patients are tested for a gene that has been found to increase the risk for a disease. The probability that a person carries the gene is **0.1**.

- i) What is the probability three or more people will have to be tested before two with the gene are detected?
- ii) How many people are expected to be tested before two with the gene are detected?
- a.i) 0.99

of

- ii) 20
- O b. i) 0.96
 - 11) 10
- O c. 1) 0.90
 - 11) 13.33
- O d.i) 0.94
 - ii) S

Clear my choice





21.01.05 الساعة م25:12





My courses

جميع الشعب / 0936251

General

Final Fall 2020

Time left 0:21:42

A synthetic fiber used in manufacturing carpet has tensile strength that is **normally distributed** with a mean of 500 and a standard deviation of 25. Find the probability that a random sample of n = 20 fiber specimens will have a sample mean tensile strength that exceeds 505.

- o a. 0.14
- O b. 0.31
- O c. 0.18
- O d. 0.26

Time left 0:26:09

For a normal population with known variance o2, answer the following question:

What is the confidence level for the interval XAvg-2.30/√n ≤µ≤ XAvg+2.30/√n

O a 87%

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In health research, patients are tested for a gene that has been found to increase the risk for a disease. The probability that a person carries the gene is **0.1**.

- i) What is the probability three or more people will have to be tested before two with the gene are detected?
- ii) How many people are expected to be tested before **two** with the gene are detected?
 - a. i) 0.99 ii) 20
 - b. i) 0.94 ii) 8
 - o c. i) 0.96
 - ii) 10
 - d. i) 0.90 ii) 13.33

Time left 0:35:10

Of 2100 randomly selected cases of lung cancer, 650 resulted in death within 10 years. Using the point estimate of pobtained from the preliminary sample, what sample size is needed to be 95% confident that the error in estimating the true value of p is less than 0.03?

O a. 1008

Q.b. 1048

Time left 0:30:26

Question 2

Not yet answered

Marked out of 1.00

P Flag question A synthetic fiber used in manufacturing carpet has tensile strength that is normally distributed with a mean of 500 and a standard deviation of 25. Find the probability that a random sample of n = 29 fiber specimens will have a sample mean tensile strength that exceeds 505.

- @ a. 0.26
- O b. 0.31
- © c. 0.18
- 6 d. 0.14

Clear my choice



Next page



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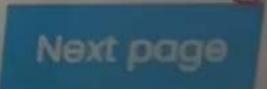






The sugar content of the syrup in canned peaches is normally distributed. A random sample of n=25 cans yields a sample standard deviation of $s^2=23.04$ milligrams². Calculate a 98% two-sided confidence interval for σ^2 .

- oa. [12.14, 55.93]
- ob. [12.87, 50.93]
- o. [14.05, 44.59]
- Od. [4.8, 12.73]



Samples of emissions from three suppliers are classified for conformance to air-quality specifications. The

Let A denote the event that a sample is from supplier I, and let B denote the event that a sample does not

results from 100 samples are summarized as follows:

conform to specifications. Events A and B are:

form to specificati		conforms		Total
1		yes 11 20	NO 4 5 6	15 25 30
supplier	2 3 Total	24 55	15	70

- O a. Independent
- O b. Dependent
- O c. Mutually exclusive
- O d. None of the above

Next page

Finish attempt ...

In health research, patients are tested for a gene that has been found to increase the risk for a disease. The probability that a person carries the gene is **0.25**.

- i) What is the probability three or more people will have to be tested before two with the gene are detected?
- ii) How many people are expected to be tested before two with the gene are detected?

a. i) 0.94

- o b. i) 0.99 ii) 20
- O c. i) 0.90 ii) 13.33
- O d. i) 0.96 ii) 10

Clear my choice

Time left 0:33:14

A synthetic fiber used in manufacturing carpet has tensile strength that is normally distributed with a mean of 500 and a standard deviation of 25. Find the probability that a random sample of n = 10 fiber specimens will have a sample mean tensile strength that exceeds 505.

a. 0.26

O b. 0.18

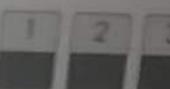
O c. 0.14

O d. 0.31

Clear my choice



Quiz navig





Finish attempt.

Next page

Suppose that X has a Weibull distribution with β = 0.2 and δ = 50 hours. Determine the mean of X.

- a. 8400
- o b. 6000
- O c. 7200
- O d. 160

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Flag question

Time left 0:38:00

Of 1700 randomly selected cases of lung cancer, 650 resulted in death within 10 years. Using the point estimate of p obtained from the preliminary sample, what sample size is needed to be 95% confident that the error in estimating the true value of p is less than 0.03?

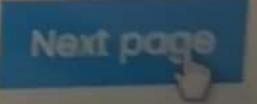
- a. 1008
- b. 913
- c. 961
- d. 1048

Suppose that X has a Weibull distribution with $\beta=0.2$ and $\delta=50$ hours. Determine the mean of X.

- O a. 160
- **b**. 6000
- O c. 8400
- O d. 7200

Clear my choice







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lag estion For a normal population with **known variance** σ^2 , answer the following question:

What is the confidence level for the interval √n ≤μ≤ X_{Avg}+2.3σ/√n XAV9-2.30/

a. 87%

O b. 92%

O c. 80%

O d. 98%

Clear my choice

Next page

Time left 0:39:53

A synthetic fiber used in manufacturing carpet has tensile strength that is normally distributed with a mean of 500 and a standard deviation of 25. Find the probability that a random sample of n = 20 fiber specimens will have a sample mean tensile strength that exceeds 505.

O a. 0.26

O b. 0.31

10 My courses

ميني التعب / 0936251

General

Final Fall 2020

Of 1900 randomly selected cases of lung cancer, 650 resulted in death within 10 the point estimate of p obtained from the preliminary sample, what sample size be 95% confident that the error in estimating the true value of p is less than 0.03?

O c. 1048

O d. 913

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Nextpage