# تم تحميل هذا الملف من موقع المناهج الإماراتية





### أسئلة الوحدة الثامنة الاحصاء الاستدلالي Statistics Inferential وفق الهيكل الوزاري

موقع المناهج ← المناهج الإماراتية ← الصف الحادي عشر المتقدم ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 11-11-2024 19:48:17

ملفات اكتب للمعلم اكتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

المزيد من مادة رياضيات:

إعداد: عماد عودة

#### التواصل الاجتماعي بحسب الصف الحادي عشر المتقدم











صفحة المناهج الإماراتية على فيسببوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

### المزيد من الملفات بحسب الصف الحادي عشر المتقدم والمادة رياضيات في الفصل الأول

الهيكل الوزاري الجديد المسار النخبة منهج ريفيل	1
الهيكل الوزاري الجديد المسار المتقدم منهج ريفيل	2
الهيكل الوزاري الجديد المسار المتقدم منهج بريدج	3
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ن الملفات بحسب الصف الحادي عشر المتقدم والمادة رياضيات في الفصل الأول	المزيد ما
ورقة عمل مهمة درس Factorization التحليل إلى عوامل	5

# مراجعة الهيكل 2024-2025

Module 8

Inferential Statistics

Imad Odeh

11 Advanced

Imad Odeh

Imad Odeh

Imad Odeh

ملاحظة

Imad Odeh

Imad Odeh

تم دمج السؤال 4 (اختيار من متعدد) مع السؤال 17 (كتابي) حيث ان الأسئلة المستهدفة نفسها في كلا السؤالين

Imad Odeh

Imad Odeh

Imad Odeh

Imad Odeh





Classify	and analyze samples	Random Sampling	1-10 & 21-23	375 & 377				
Identify each sample, and suggest a population from which it was selected. Then classify the sample as simple random, systematic, self-selected, convenience, or stratified. Explain your reasoning.								
		randomly selects fou	r T-shirts					
Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
2. The project manager at a new business inspects every tenth smart phone produced to check that it is operating correctly.  Imad Odeh Imad Odeh Imad Odeh Imad Odeh Imad Odeh								
3. A grocery store manager asks its customers to submit suggestions for items on								
lad basiduring th	ne weekmad Odeh	Imad Odeh	Imad Odeh					
https:			aths 2022	MATHS ACADEMY				
	e sample, and e sample as sime Explain your read divides his sport and read Odeh  oject manager at ced to check the simad Odeh  ery store manager and basiduring the side of t	e sample as simple random, systematic, so Explain your reasoning.  divides his sports T-shirts by team. Then he each team and records the size.  Imad Odeh  oject manager at a new business inspects exced to check that it is operating correctly.  Imad Odeh  ery store manager asks its customers to substand banduring the weekmad Odeh	ach sample, and suggest a population from which it was selected e sample as simple random, systematic, self-selected, convenient Explain your reasoning.  divides his sports T-shirts by team. Then he randomly selects four each team and records the size.  Imad Odeh Imad Odeh Imad Odeh  oject manager at a new business inspects every tenth smart phoroced to check that it is operating correctly.  Imad Odeh Imad Odeh Imad Odeh  ery store manager asks its customers to submit suggestions for its lad basiduring the weekmad Odeh Imad Odeh	ach sample, and suggest a population from which it was selected. Then e sample as simple random, systematic, self-selected, convenience, or Explain your reasoning.  divides his sports T-shirts by team. Then he randomly selects four T-shirts each team and records the size.  Imad Odeh Imad Odeh Imad Odeh Imad Odeh  oject manager at a new business inspects every tenth smart phone ced to check that it is operating correctly.  Imad Odeh Imad Odeh Imad Odeh Imad Odeh  ery store manager asks its customers to submit suggestions for items on lad banduring the weekmad Odeh Imad Odeh Imad Odeh Imad Odeh				

**Exercise** 

Page

**Learning Outcome/Performance Criteria\*\*** 

Q14

MCQ	(	Classify and analyze samples	Random Sampling	1-10 & 21-23	375 & 377					
Identify ea	dentify each sample or question as biased or unbiased. Explain your reasoning.									
	•	e of eight people is asked to select to solect	heir favorite food for a	survey						
-		Imad Odeh ent at band camp is asked to name he e campers.	Imad Odeh nis or her favorite band	Imad Odeh d for a						
6. Every f	•	Imad Odeh n entering a museum is asked to nar a survey about reading interests of		Imad Odeh  ype of						
In	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh						
+ WAD OPEN		اذ عماد عودة https://t.me/+XPfMBpsQpVxjNzNk http		10-M naths2022	ATHS ACADEMY					

**Exercise** 

Page

Q14

**Learning Outcome/Performance Criteria\*\*** 

Identify each sample or question as biased or unbiased. Explain your reasoning.						
7. Do you think that the	workout facility needs a new tread	mill and racquetb	all court?			
Imad Odeh  8. Which is your favorite	type of music, pop, or country?	lmad Odeh	Imad Odeh			
<b>9. Are you a member of</b> Imad Odeh	any after-school clubs? Imad Odeh	Imad Odeh	Imad Odeh			
10. Don't you agree that e	employees should pack their lunch	? 9				
lmad Odeh	Imad Odeh	lmad Odeh	Imad Odeh			
htt	أستاذ عماد عودة ps://t.me/+XPfMBpsQpVxjNzNk http://		Dimaths 2022			

Random Sampling

**Exercise** 

1-10 & 21-23

Page

375 & 377

**Learning Outcome/Performance Criteria\*\*** 

Classify and analyze samples

Q14

MCQ

Q14	Learning Outco	ome/Performance Criteria**	Lesson 8-1	Exercise	Page				
MCQ	Classify	and analyze samples	Random Sampling	1-10 & 21-23	375 & 377				
Then dete	Classify each sample as simple random, systematic, self-selected, convenience, or stratified. Then determine whether each situation describes a survey, an observational study, or an experiment.								
		preferences of their customer		isic store					
selecte	ed 10 customers ir	the store to participate in an	interview.						
	Imad Odeh	lmad Odeh	Imad Odeh	Imad Odeh					
22. Administrators at a community library want to know the type of materials patrons are most likely to use. Every Friday, they record the type of media each patron uses. Imad Odeh Imad Odeh Imad Odeh Imad Odeh Imad Odeh									
lr	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
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MCQ	Class	sify and analyze samples	Random Sampling	1-10 & 21-23	375 & 377				
Classify each sample as simple random, systematic, self-selected, convenience, or stratified.  Then determine whether each situation describes a survey, an observational study, or an experiment.									
technolo the stude using the group co	23. To determine whether the school should purchase new computer software, the technology team divides a group of 50 students into two groups by age. Half of the students from each age group are randomly selected to complete an activity odeh using the current computer software, and the other half of the students from each group complete the same activity using the new computer software. The students' actions are recorded and analyzed.								
ı	lmad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
In	nad Odeh	lmad Odeh	Imad Odeh	Imad Odeh					
الأستاذ عماد عودة https://t.me/+XPfMBpsQpVxjNzNk http://www.youtube.com/@imaths2022									

**Exercise** 

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**Learning Outcome/Performance Criteria\*\*** 

Q14

Q15	Learning Outcome	Learning Outcome/Performance Criteria**			son 8-2	Exercise	Page
MCQ	Find and compare exprod	perimental and the pabilities	oretical	_	Statistical riments	1-5	383
	oun a spinner with 4 equa	al sections 100	Spinne	r Section	Frequency		
times and	recorded the results.		R	ed	35		
<b>a.</b> Find the	theoretical probability of	spinning blue.	В	lue	38		
_	our answer as a percenta	ge rounded to the	Gr	een	13		
nearest	tenth, if necessary.	Imad Odeh	Ye	llow Imag	Odeh 14	Imad Odeh	
Write yo	our answer as a percenta	ge rounded to the no	earest tent	h, if necess	ary.		
l	mad Odeh	Imad Odeh		lmad	Odeh	Imad Odeh	
l sa				lun a al C			
III	nad Odeh	Imad Odeh		Imad C	den	Imad Odeh	
+ WATH-IIACL			اذ عماد عودة	الأسدّ		10-1	MATHS ACADEMY

Q15	Learning Ou	ıtcome/Performance Cr	riteria**		Lesson 8-2	Exercise	Page
MCQ	Find and comp	are experimental and to probabilities	theoretical		sing Statistical Experiments	1-5	383
a. Find the theoretical probability of the coin landing on heads. Write your answer as a percentage rounded			Coin Resu Heads Tails	It	Frequency 73 52		
<b>b.</b> Find the		essary. Imad Ode ability of the coin landing o unded to the nearest tenth	on heads. Write		lmad Odeh	Imad Odeh	
	mad Odeh	Imad Odel		li	mad Odeh	Imad Odeh	
In	nad Odeh	lmad Odeh			nad Odeh	Imad Odeh	
MAD OPEN	الأستاذ عماد عودة https://t.me/+XPfMBpsQpVxjNzNk http://www.youtube.com/@imaths2022						

2.

MCQ		e experimental and the probabilities	_		Statistical eriments	1-5	383
3. A fair 6-side	ed die is rolled 150 tin	nes.	Number	on Die	Frequency		
<b>a.</b> Find the	theoretical probabilit	ty of rolling a 3. Write	1		32		
-		e rounded to the nearest	2		18		
tentn, it	f necessary.		3		27		
<b>b.</b> Find the	elexperindental probab	oility of rollingad.Odeh	4	lma	d Odeh 16	Imad Odeh	
-	•	entage rounded to the	5		33		
nearest	t tenth, if necessary.		6		24		
I	mad Odeh	Imad Odeh	Imad Odeh		Odeh 2024	Imad Odeh	
In	nad Odeh	Imad Odeh		Imad	Odeh	Imad Odeh	
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**Exercise** 

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Q15

**Learning Outcome/Performance Criteria\*\*** 

Q15	Learning Outcome/Performance Criteria**		Lesson 8-2	Exercise	Page				
MCQ	Find and compare experimental and theoretical probabilities		Using Statistical Experiments	1-5	383				
4. INTERNET Tiana sells handmade earrings online. Last month she sold 60% of her inventory. Design and run a simulation that can be used to estimate the probability of selling inventory.									
	Imad Odeh	Imad Odeh	lmad Odeh	Imad Odeh					
l	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
In	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
TO MAD OPEN		عماد عودة https://t.me/+XPfMBpsQpVxjNzNk ht			MATHS ACADEMY				

MCQ	·	e experimental and theoretical probabilities	Using Statistical Experiments	1-5	383				
5. PROGRAMMING Lamar designed a soccer computer game. He coded the program such that a player will make a goal on 35% of the attempts. Paola is testing the game and thinks there may be an error in the game's programming. She attempted to make 30 goals and only 4 were successful. Run and evaluate a simulation, and decide whether Paola is correct.									
Simulation	Imad Odeh	lmad Odeh	Imad Odeh	Imad Odeh					
I	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
In Marin-11 April	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
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**Exercise** 

Page

Q15

**Learning Outcome/Performance Criteria\*\*** 

Q16	Learning Outcome/I	Performance Criteria**	Lesson	8-3	Ex	ercise	Page	
FRQ		rall shape	Analyzing Po Data			1-6	391	
	1. BARBER A barber wants to purchase new professional shears from Cost of Shears (\$)							
	•	the shears are shown in the simple to the simple the simple to the simple the		50 1	65 55	79		
		ur answers to the nearest		84	68 38	42		
	Imad Odeh	Imad Odeh	Imad Oc	leh	Ir	mad Odeh		
	Imad Odeh	Imad Odeh	Imad Ode	a h	Im	nad Odeh		
'		2025	2	024	111			
Ir	mad Odeh	Imad Odeh	Imad Odel	1	lma	ad Odeh		
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Q16	Learning Outcome/P	erformance Criteria**	Lesson 8-3	Exercise				
FRQ		tion by its center, spread, all shape	Analyzing Population Data	1-6				
	2. READING Ms. Sanchez keeps track of the total number of books each  Books Read							
		ring the school year. Use to pret the standard deviation	n of the data.	6 12				
Round yo	our answers to the neare	st tenth.	8 10	9 14 13 8				
	Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh				
	lmad Odeh	Imad Odeh	Imad Odeh	Imad Odeh				
	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh				
JUNE H-114E								
+		اذ عماد عودة	الأست	10-1	IATHS			
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Q16	Learning Outcome	e/Performance Criteria**	Lesson 8-3	Exercise	Page				
FRQ		bution by its center, spread, verall shape	Analyzing Population Data	1-6	391				
	Use a graphing calculator to find the mean and standard deviation of each set of data. Round to the nearest tenth.								
<b>3.</b> 20, 23,	24, 23, 22, 25, 21,	<b>4.</b> 150, 15	53, 125, 136, 143, 150, 16	66, 148,					
23, 24,	<b>22, 21, 23, 22, 24</b> Imad O'deh	Imad Odeh 150, 1	<b>73, 150, 153, 143, 142, 1</b>	53 Imad Odeh					
	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
In	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
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Q16	Learning Outcome	/Performance Criteria**	Lesson 8-3	Exercise	Page				
FRQ		oution by its center, spread, verall shape	Analyzing Population Data	1-6	391				
	Use a graphing calculator to find the mean and standard deviation of each set of data. Round to the nearest tenth.								
	8, 6.2, 7.1, 5.3, 6.2, 2, 71, 4.5, 9.9, 8.2		2800, 4525, 2150, 28 , 1800, 5250, 3975, 58						
	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh					
TAND OPEN	nad Odeh  https://t.m	lmad Odeh اذ عماد عودة e/+XPfMBpsQpVxjNzNk http:		***	MATHS ACADEMY				

dentify the random variable in each distribution, and classify it as discrete or continuous. Explain your reasoning.							
1. the number of texts re	eceived per week						
2. the number of filelikes"	for a Web pageOdeh	Imad Odeh	Imad Odeh				
3. the height of a plant a	after a specific amount of tir	me					
Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh				
Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh				
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**Normal Distributions** 

**Exercise** 

4-13 & 10

Page

401&414

Q 4+17

FRQ

MCQ

**Learning Outcome/Performance Criteria\*\*** 

Find the area under normal distribution curves

Find probabilities for normal distributions and find data values

given probabilities

Q 4+17	Learning Outco	me/Performance Criteria**	Lesson 8-4	Exercise
FRQ MCQ	Find probabilities for nor	er normal distribution curves mal distributions and find data values en probabilities	Normal Distributions	4-13 & 10
plates we	ere randomly tagged	dinner, the underside of 200 with a sticker to indicate winni	ng <b>Prize, (X)</b>	Frequency
		able shows the number of	\$5	150
٠.	olates for each prize. digraphthehprobabili	Construct a relative frequency	Imad Odeh	40 Imad Odeh
table, and		ty distribution. Oden	\$100	9
			\$1000	1
I	lmad Odeh	Imad Odeh	Imad Odeh	Imad Odeh
Ir	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh
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401&414

Q 4+17	Learning	g Outcome/Performance Criteria**	Lesson 8-4	Exercise	Page
FRQ MCQ		area under normal distribution curves es for normal distributions and find data values given probabilities	Normal Distributions	4-13 & 10	401&414
distribution and distribu players on t	of the heights on the contract of the contract	ector made a probability of her team's basketball players, claimed that the majority of the eam are 71 inches or taller. Identify tion of the probability distribution. Imad Odeh	Imad Odeh	0.265 0.265 0.255 0.255 0.245 0.245 Height (in.)	eights
I	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
In + H-11ADZ	nad Odeh	lmad Odeh ناذ عماد عودة	lmad Odeh	Imad Odeh	MATHS ACADEMY

Q	4+17	Learning	Outcome/Performance Criteria**	Lesson 8-4	Exercise	Page
	FRQ 4CQ		rea under normal distribution curves s for normal distributions and find data values given probabilities	Normal Distributions	4-13 & 10	401&414
6.	shown	. Create a his	nary times for a 110-meter hurdles stogram of the set of data. Detern proximated with a normal distribu Imad Odeh	nine whether	Times (seconds) 14.75, 14.77, 14.31, 14.83, 14.35, 14.69, 14.63, 14. 14.82, 44.25, 4.93	
	I	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
pare .	In	nad Odeh	lmad Odeh	Imad Odeh	Imad Odeh	
+ ( }	+		اذ عماد عه دة	3Ý1	[O-M	ATHS ACADEMY

FRQ MCQ		he area under normal distribution curves lities for normal distributions and find data values given probabilities	Normal Distributions	4-13 & 10	401&414
Example 5				he Empirical Rule	
<b>7.</b> A normal of 48.9.	distribution	n has a mean of 186.4 and a standard dev	viation In a normal distr	ibution with mean $\mu$ and standard deviatio	on $\sigma$ ,
	Imad Odeł	alues represents the middle 99.7% of the Imad Odeh data will be greater than 235.3?	Imad Odeh +-	34% $34%$ $2.35%$ $13.5%$ $12.35%$ $13.5%$	+3σ •
c. What	range of va	alues represents the upper 2.5% of the da	ata?	95%	1
			<ul> <li>approximately</li> </ul>	68% of the data fall within $1\sigma$ of the mean, 95% of the data fall within $2\sigma$ of the mean 99.7% of the data fall within $3\sigma$ of the mean	, and
I	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
In	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
+ WATH-ILAND					
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**Exercise** 

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Q 4+17

**Learning Outcome/Performance Criteria\*\*** 

FRQ MCQ	Find the area under norr Find probabilities for normal dis given prob	tributions and find data values	Normal Distributions	4-13 & 10	401&414
Find the z	-value for each stand	ard normal distributi	on.		
<b>8.</b> $\sigma$ = 9.	8, $X = 55.4$ , and $\mu = 6$	68.34			
	.6, $X=$ <b>42.80, and</b> $\mu=$ 1mad Odeh .9, $X=$ 119.2, and $\mu=$		lmad Odeh	Imad Odeh	
I	lmad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
In ATH-1140	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
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**Exercise** 

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**Learning Outcome/Performance Criteria\*\*** 

Q 4+17

Q 4+17	Learning Ou	tcome/Performance Criteria**	Lesson 8-4	Exercise	Page
FRQ MCQ		under normal distribution curves normal distributions and find data values given probabilities	Normal Distributions	4-13 & 10	401&414
Use a tabl	e to find the ar	ea under the normal curve for	each interval.		
<b>11.</b> <i>z</i> > 0	.58				
	Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
	Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
lr	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
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Q 4+17	Learning Outco	ome/Performance Criteria**	Lesson 8-4	Exercise	Page
FRQ MCQ	Find probabilities for no	der normal distribution curves rmal distributions and find data values ven probabilities	Normal Distributions	4-13 & 10	401&414
Use a tab	le to find the area	under the normal curve for	r each interval.		
<b>12.</b> z < -	1.56				
	Imad Odeh	Imad Odeh	lmad Odeh	Imad Odeh	
	lmad Odeh	Imad Odeh	Imad Odeh	Imad Odeh	
Ir	mad Odeh	Imad Odeh	lmad Odeh	lmad Odeh	
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Q 4+17	Learning Outco	me/Performance Criteria**	Lesson 8-4	Exercise	Page						
FRQ MCQ	Find probabilities for no	der normal distribution curves rmal distributions and find data values ren probabilities	Normal Distributions	4-13 & 10	401&414						
Use a table to find the area under the normal curve for each interval.											
<b>13.</b> –2.29	9 < <i>z</i> < 2.76										
	Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh							
	Imad Odeh	Imad Odeh	Imad Odeh	Imad Odeh							
Ir	nad Odeh	Imad Odeh	Imad Odeh	Imad Odeh							
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الأستاذ عماد عودة											

Q 4+17	Learning Out	tcome/Performance Criteria**	Lesson 8-4	Exercise	Page					
FRQ MCQ		under normal distribution curves normal distributions and find data values given probabilities	Normal Distributions	4-13 & 10	401&414					
10. OPEN RESPONSE A normal distribution has a mean of 347.2 and a standard deviation										
01 13.9.	(Lesson 3 diph	Imad Odeh	Imad Odeh	Imad Odeh						
<b>Part A</b> \ 319.4?	What percent of th		Part B What percent of the han 361.1?	e data is greater						
I	mad Odeh	Imad Odeh	Imad Odeh	Imad Odeh						
In the land of the	nad Odeh	lmad Odeh ذ عماد عودة	lmad Odeh	Imad Odeh	MATHS ACADEMY					

Don't give up, it's a long Journey to achieve your goals, and you will face many barriers and obstacles, some of which can be easily overcome, and others are very difficult to overcome, some of which will bring you down and cost you a lot, and some of which will set you back, but in the end, you will reach your destination and achieve more than you expect.

تمنياتي بالتوفيق للجميع Best wishes



