Grade	11	Skills	Evaluate & Interpret	
Difficulty level	Difficult	Question	اختيارات	1
, , , , , , , , , , , , ,			Choices	1

In a pizza restaurant, you can get a basic pizza with two toppings: cheese and tomato. You can also make up your own pizza with extra toppings. You can choose from four different extra toppings: olives, ham, mushrooms and salami.

Ross wants to order a pizza with two different extra toppings.

How many different combinations can Ross choose from?

Grade	11	Skills	Employ	
Difficulty level	ficulty level Medium Question	المساحة		
J,		L	Area	2

There are three apartments in the building. The largest, apartment 1, has a total area of 95m².

Apartments 2 and 3 have areas of 85m² and 70m² respectively. The selling price for the building is 300 000 zeds.

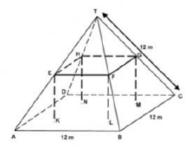
How	much	should	the	owner	of	apartment	2	pay	?



Here you see a photograph of a farmhouse with a roof in the shape of a pyramid



Below is a student's mathematical model of the farmhouse roof with measurements added



The attic floor, ABCD in the model, is a square. The beams that support the roof are the edges of a block (rectangular prism) EFGHKLMN. E is the middle of AT, F is the middle of BT, G is the middle of CT and H is the middle of DT. All the edges of the pyramid in the model have length 12 m.

1) Calculate the area of the attic floor ABCD.

.....

2) Calculate the length of EF, one of the horizontal edges of the block.

.....



Grade	11	Skills	Employ
Difficulty level	Feet	Ougstion 4	سعر الصرف
Difficulty level	Easy	Question 4	Exchange Rate

ساڤر أحمد مع أهله إلى سنغاڤورة من أجل العلاج ثم اضطر للسفر من سنغاڤورة إلى جنوب أڤريقيا في مهمة عمل رسمية لمدة 3 أشهر احتاج أحمد لتحويل بعض الدولارات السنغاڤوريّة (SGD) إلى راندات جنوب أفريقيا (ZAR)

وجد أحمد أنّ سِعر صرف الدولار السنغافوريّ إلى الراند الجنوب أفريقي كان



على النحو التالي: ASGD = 4.2 ZAR صرف أحمد 3000 دو لار سنغافوري إلى الرائد الجنوب أفريقيّ حسب سِعر الصرف ال

ما هو المبلغ الذي حصل عليه أحمد بالرائد الجنوب افريقي.

Ahmed-Ling from Singapore was preparing to go to South Africa for 3 months as an exchange student. He needed to change some Singapore dollars (SGD) into South African rand (ZAR). Ahmed found out that the exchange rate between Singapore dollars and South African rand was: 1 SGD = 4.2 ZAR Ahmed changed 3000 Singapore dollars into South African rand at this exchange rate. How much money in South African rand did Ahmed get?

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BLIVEWORKSHEETS

G11: Numeracy	Lessons Week 1 Post -Test NAME	CLASS
OTT. Mailielaci	LESSONS VVCCK I FOST TEST IVAIVIL	CLASS

Grade	11	Skills	Employ
Difficulty lavel	Fami	Overtion 5	سعر الصرف
Difficulty level	Easy	Question 5	Exchange Rate

3900 ZA صرف أحمد هذا المبلغ من جديد إلى دو لارات	عند عودته إلى سنغافورة بعد 3 أشهر، تبقى معه مبلغ R
حو التالي: SGD = 4 ZAR	منغافوريّة (SGD). عِلماً بأنّ سِعر الصرف قد تغيّر على الذ
	ا هو المبلغ الذي حصل عليه أحمد بالدو لار السنغافوري؟
	v.
On returning to Singapore after 3 months, Al	hmed had 3 900 ZAR left. He changed this
back to Singapore dollars, noting that the excha How much money in Singapore dollars did Ahm	ange rate had changed to: 1 SGD = 4.0 ZAR



Grade	11	Skills	Employ
Difficulty lavel	Farm	Overting C	سعر الصرف
Difficulty level	Easy	Question 6	Exchange Rate

للل هذه الأشهر الثلاثة ، تغير سعر الصرف من 4.2 إلى ZAR 4.0 لكل SGD. هل كان لصالح أحمد أن سعر الصرف سح الآن ZAR 4.0 بدلاً من ZAR 4.2 ، عندما غير رانده الجنوب أفريقي إلى دولارات سنغافورة؟ أعط تفسيرا لدعم إجابتك.	_
During these 3 months the exchange rate had changed from 4.2 to 4.0 ZAR per SGD. Was it in Ahmed's favour that the exchange rate now was 4.0 ZAR instead of 4.2	
ZAR, when she changed her South African rand back to Singapore dollars? Give an explanation to support your answer.	

'Yes', with adequate explanation.

- Yes, by the lower exchange rate (for 1 SGD) Mei-Ling will get more Singapore dollars for her South African rand.
- Yes, 4.2 ZAR for one dollar would have resulted in 929 ZAR. [Note: student wrote ZAR instead of SGD, but clearly the correct calculation and comparison have been carried out and this error can be ignored]
- Yes, because she received 4.2 ZAR for 1 SGD, and now she has to pay only 4.0 ZAR to get 1 SGD.
- Yes, because it is 0.2 ZAR cheaper for every SGD.
- Yes, because when you divide by 4.2 the outcome is smaller than when you divide by 4.
- Yes, it was in her favour because if it didn't go down she would have got about \$50 less.



Grade	11	Skills	Evaluate & Interpret	t
			الزلازل	
Difficulty level	Easy	Question	Earthquake	7

بُث فيلم وثائقي عن الزلازل و عن عدد مرات حدوثها. وتضمن نقاشا حول التنبؤ بحدوث الزلازل. قال عالم جيولوجي: "في العشرين سنة القادمة، فرصة حدوث زلزال في الزد سيتي هي اثنان من ثلاثة". أي مما يلي يعتبر أفضل عبارة تعكس بيان العالم الجيولوجي؟

لزد ستي. وهذا يعني أنه بين 13 و 14 سنة من الآن سوف يحدث زلزال في الزد ستي. $\frac{2}{3} \times 20 = 13.3$

2) $\frac{2}{5}$ أكار من ، ولهذا يمكنك أن تكون متأكدا أنه سيكون هناك زلزال في الزد سيتي في أي وقت خلال العشرين سنة القادمة.

3) فرصة حدوث زلزال في الزد سيتي في أي وقت خلال 20 سنة أكبر من فرصة عدم حدوث زلزال.
4) لا تستطيع قول ماذا سيحدث، لأنه لا أحد يمكنه أن يكون متأكدا من وقت حدوث زلزال ما.

A documentary was broadcast about earthquakes and how often earthquakes occur. It included a discussion about the predictability of earthquakes.

A geologist stated: "In the next twenty years, the chance that an earthquake will occur in Zed City is two out of three".

Which of the following best reflects the meaning of the geologist's statement?

1) $\frac{2}{3} \times 20 = 13.3$, so between 13 and 14 years from now there will be an earthquake in Zed City.

2) $\frac{2}{3}$ is more than $\frac{1}{2}$, so you can be sure there will be an earthquake in Zed City at some time

during the next 20 years.

3) The likelihood that there will be an earthquake in Zed City at some time during the next

years is higher than the likelihood of no earthquake.

4) You cannot tell what will happen, because nobody can be sure when an earthquake will occur.



Grade	11	Skills	Formulate	
Difficulty level	F	0	التفاح	
Difficulty level	Easy	Question	The apple	8

يقوم مزارع بزراعة أشجار التفاح بحيث تأخذ نمطا مربعا. ولحماية أشجار التفاح من الرياح قام المزارع بزراعة أشجار الصنوبر حول البستان. المخطط التالي يوضح الموقف السابق، حيث يمكنك رؤية النمط الذي اتخذته أشجار التفاح و أشجار الصنوبر لعدد (n) من صفوف أشجار التفاح:

n	=	7			n	=	2				n	=	3					r	=	4						
x	×	(×		×	×	>	(×	×	×	×	>	×	×	×	×	×	×	×	×	×	×	×	×	×
X	•	•	×		X				٠	×	×			•	•		X	×					•		•	×
X	×	(×		x					×	×						x	×								×
					X				٠	×	x			•	•		X	×			•		•			×
					X	X	>	(×	X	x						X	×								×
											X			•	•	•	X	X					•		•	K
	2	نه	الص	جار	اش	=	X				x	X	>	×	X	×	X	×								×
-	7.0						•											×					•		•	×
																		×	X	X	X	×	×	×	X	K
2	فا	G)	ار ا	اشج	=		•																			

السؤال .

أكمل الجدول التالي:

عدد أشجار الصنوبر	عدد أشجار التفاح	N
8	1	1
	4	2
		3
		4
		5

A farmer plants apple trees in a square pattern. In order to protect the apple trees against the wind he plants conifer trees all around the orchard.

Here you see a diagram of this situation where you can see the pattern of apple trees and conifer trees for any number (n) of rows of apple trees:

n	=	= 7	1	n	=	2			n	= ;	3					n	=	4						
x		x	x	×	×	×	×	x	x	X	x	x	×	x	×	×	×	×	x	×	x	x	x	x
×		•	×	×			•	×	×	٠				•	×	×			•		•			×
X		X	×	×				×	X						×	×								X
				×				×	×			•			×	×					•			×
				×	×	×	×	×	x						×	×								x
									×	•				•	×	×								x
									×	×	X	×	×	×	×	×								X
				or tree												×								x
•	•	**	apple	e tree												×	×	×	×	×	×	×	×	×

Complete the table:

N	Number of apple trees	Number of conifer trees
1	1	8
2	4	
3		
4		
5		



G11: Numeracy	Lessons Week 1 Post -7	Test NAME	CLASS

Grade	11	Skills	Formulate			
Difficulty level	Fami	Ouestien.	التفاح	•		
Difficulty level	Easy	Question	The apple	9		

2) There are two formulae you can use to calculate the number of apple trees and the number of conifer trees for the pattern described above:

Number of apple trees = n^2

Number of conifer trees = 8n

where n is the number of rows of apple trees.

There is a value of *n* for which the number of apple trees equals the number of conifer

trees. Find the value of n a	and show your method of	calculating this.	



	G11: Numerac	v Lessons Week 1 Post -Test NAME	CLASS
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Grade	11	Skills	Formulate	
Difficular Local	B.O. alinus	0	التفاح	10
Difficulty level	Medium	Question	The apple	10

افترض أن المزارع يربد توسعة البستان بشكل كبير وذلك بالعديد من صفوف الأشجار، إذا عمل المزارع على
نوسعة
البستان، فأيهما سوف يزداد بشكل أسرع: عدد أشجار التفاح أم عدد أشجار الصنوبر؟ اشرح طريقة الحل.
Suppose the farmer wants to make a much larger orchard with many rows of trees. As the
farmer makes the orchard bigger, which will increase more quickly: the number of apple
trees or the number of conifer trees? Explain how you found your answer.

