



FAJAR SECONDARY SCHOOL 2021 END-OF-YEAR EXAMINATIONS SECONDARY 1 EXPRESS

CANDIDATE NAME		
CLASS	INDEX NUMBER	

MATHEMATICS

Paper 1

Setter: Mr Lim Yeun Chen

Candidates answer on the Question Paper.

READ THESE INSTRUCTIONS FIRST

Write your class, index number and name on all the work you hand in. Write in dark blue or black pen. You may use pencil for any diagrams, graphs, tables or rough working. Do not use staples, paper clips, glue or correction fluid.

Answer all questions.

If working is needed for any question it must be shown with the answer.

Omission of essential working will result in loss of marks.

The use of an approved scientific calculator is expected, where appropriate.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142, unless the question requires the answer in terms of π .

At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question.

The total of the marks for this paper is 50.

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Total	50		

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4048/01

6 October 2021 1 hour 15 minutes

Mathematical Formulae

Compound interest

Total amount =
$$P\left(1 + \frac{r}{100}\right)^n$$

Mensuration

Curved surface area of a cone = πrl

Surface area of a sphere = $4\pi r^2$

Volume of a cone = $\frac{1}{3}\pi r^2 h$

Volume of a sphere =
$$\frac{4}{3}\pi r^3$$

Area of triangle $ABC = \frac{1}{2}ab\sin C$

Arc length = $r\theta$, where θ is in radians Sector area = $\frac{1}{2}r^2\theta$, where θ is in radians

Trigonometry



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$
$$a^2 = b^2 + c^2 - 2bc \cos A$$



Statistics

$$Mean = \frac{\sum fx}{\sum f}$$

Standard deviation =
$$\sqrt{\frac{\sum fx^2}{\sum f} - \left(\frac{\sum fx}{\sum f}\right)^2}$$

Answer all the questions.

1 Write the following in order of size, smallest first.

$$\frac{38}{47}$$
, $\sqrt{0.64}$, $0.72^{\frac{2}{3}}$, 0.808



3 The usual price of a laptop is \$1200. During a sale, the price of the laptop becomes \$900. What is the percentage decrease in the price of the laptop?

Answer% [2]

BP~115

4	In a sequence, the same number is subtracted each time to obtain the next term. The first five terms of the sequence are							
			56	x	у	Z	32.	
	(a)	Find the values of <i>x</i> ,	y and z.					
						Answer	<i>x</i> =	
							<i>y</i> =	
			<i>.</i>				<i>z</i> =	[2]
	(b)	Write down an expre	ession for	the <i>n</i> t	h term	of this s	equence in terms of n .	2
						Answer		[1]
	(c)	Explain why –283 is	not a terr	n of th	e sequ	ience.		
	Ansv	wer		DAT	CATI	ы 079		
								[1]
5	Fact	orise						
	(a)	x(2-y) + 13(2-y),						
						Answer		[1]
	(b)	$24x^2y-6xy.$						
						Answer		[1]

6 At 0800, Allen, Bala and Zoe started jogging from the starting point of a 200 m circular track. Allen took 100 seconds, Bala took 35 seconds and Zoe took 42 seconds to complete one round.

Find the time they would next meet again at the starting point, if they continued jogging in the same direction at constant speed?

DANYAL

.....[3] Answer

7 Solve

(a) 3p = -39,

(b) 15q - 24 = 31 + 3q.



Answer $q = \dots$ [2]

8 (a) By rounding each number to 1 significant figure, estimate the value of $\frac{1986 \times 6.38}{442.5 - 242.5}$

You must show your working.

(b) Calculate the exact value of $\frac{1986 \times 6.38}{442.5 - 242.5}$

State whether your estimation in part (a) is an under or over estimate.

Answer

9 Three of the exterior angles of a polygon with n sides are 60°, 45° and 75°. The remaining exterior angles are each 30°. Calculate the value of n.

Answer $n = \dots$ [3]

10 In the diagram, APB and PRQ is a straight line, AB is parallel to CD and PQ=PS. Angle $QPR=22^{\circ}$ and angle $DRU=118^{\circ}$.







(b) angle BPS,

(c) reflex angle PSD.

BP~119

11	Mr Chai bought 25 markers. The red markers cost 30¢ each and the blue markers	
	$\cos t 45 \phi$ each.	

- (a) If there are x red markers, write down and simplify an expression in x for,
 - (i) the cost of the red markers,

Answer¢ [1]

(ii) the cost of the blue markers.

Answer¢ [1]

(b) (i) Find the total cost of markers in term of x.

(ii) The total cost of 25 markers was \$9.45 Find the number of blue markers.

12 The figure below shows trapezium *ABCD* and semicircle *DFC*. AB = 14 cm, BC = 5 cm and AD = 5 cm. The diameter of the circle *E* is 8 cm.



Calculate

(a) the area of the shaded region,



(b) the perimeter of the shaded region.

- 10
- 13 A survey was conducted on a class of 25 pupils to find out the number of hours each student spent using computer daily. The results are shown in the table below.

4	2	3	2	3
2	3	1	2	3
1	3	4	1	2
2	2	1	3	3
1	4	3	3	3

(a) Complete the frequency table.

[2]

Number of hours spent using computer	mber of hours spent using computer Tally	
1		IN.
2		1 Draw
3		Discouto
4		EDUC
D.P.C.	Total	25

(b) Calculate the average number of hours each student spent using computer. Give your answer in hours.

(c) Students are recommended to spend a maximum of $1\frac{1}{2}$ hours on the computer daily. Find the percentage of students who follow the recommended usage hours.

Answer% [1]

[2]

14 (a) Construct triangle XYZ, where XZ = 10 cm and $XYZ = 85^{\circ}$. XY has already been drawn.

Answer







(b) Measure and write down the length of YZ.

X

END OF PAPER

PartnerInLearning 121 [Turn over

4048/02

8 October 2021

1 hour 15 minutes





FAJAR SECONDARY SCHOOL 2021 END-OF-YEAR EXAMINATIONS SECONDARY 1 EXPRESS

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CLASS	INDEX NUMBER	

MATHEMATICS

Paper 2

Setter: Mr Lim Yeun Chen

Candidates answer on the Question Paper.

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Answer all questions.

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Mathematical Formulae

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$$\pi rl$$

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Volume of a sphere =
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Area of triangle $ABC = \frac{1}{2}ab\sin C$

Arc length = $r\theta$, where θ is in radians

Sector area =
$$\frac{1}{2}r^2\theta$$
, where θ is in radians

Trigonometry



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$
$$a^2 = b^2 + c^2 - 2bc \cos A$$



Statistics

$$Mean = \frac{\sum fx}{\sum f}$$

Standard deviation =
$$\sqrt{\frac{\sum fx^2}{\sum f} - \left(\frac{\sum fx}{\sum f}\right)^2}$$

Answer all the questions.

- 1 (a) Without the use of a calculator, evaluate
 - (i) $\{-4-[9+(-3)]^2\}\times(-4)$



2 (a) Express 504 as a product of its prime factors.

(b) Given that 504k is a perfect cube, write down the smallest possible integer k.

Answer $k = \dots$ [1] (a) It is given that $d = \frac{b^2 - 3a}{2ac}$. 3 Find the value of d when a = 4, b = -5 and $c = \frac{1}{4}$. Answer [2] (b) Solve the equation $2 = \frac{2x-1}{3} + \frac{3(1-5x)}{4}$.

Given that x: y = 0.3: 0.5 and y: z = 2:7. find x: y: z. 4 (a)

> Answer: [2]

(b) In a school election for the head prefect, there were 3 candidates A, B, and C. Given that there were 1500 voters and the votes for the 3 candidates were divided in the ratio of 11:7:2.

Calculate

the number of votes that the winning candidate received, (i)

[2] Answer

the difference between the highest number and lowest number of votes. (ii) DANYAL



BP~129

- 6
- 5 An airplane flying directly from Singapore to Seoul within the same day travels an average speed of 861 km/h.

The table below shows the actual departure time from Singapore and the arrival time in Seoul (in Singapore time) for a particular flight.

Venue	Singapore (Departure)	Seoul (Arrival)
Time in Singapore	09 45	15 15

(a) Find the flight distance between Singapore and Seoul. Give your answer in kilometres to the nearest integer.

(b) On a particular day, due to bad weather conditions, the airplane flew at an average speed of 750 km/h to Taipei and stopped over for an hour before completing the journey to Seoul. The flight distance from Singapore to Taipei is 3248 km. At what time did the airplane leave Taipei for Seoul?

A LCD Television advertisement in the month of October is as shown below. 6

Sale!!	
NOW \$3 999	
Payment Modes	
Cash Price: \$3 999	
or	
Hire Purchase: 25% deposit + \$140 for 24 months	

A salesman will receive a commission of 2% of the sale price for any LCD (a) Television sold using cash payment. Calculate the commission he will earn if he manages to sell 100 LCD Television DANYAL in October. DANYAL

(b) Mr Chua decides to purchase a LCD Television by hire purchase. How much more does Mr Chua have to pay if he buys by hire purchase, instead of DAMPicanion EDUCATION paying cash?



Answer \$..... [2]

BP~131

7 Valerie's savings is represented by the following equation y = 10x + 5. The table below shows the number of weeks, x, and her savings, \$y, in her saving jar after each week.

Number of	0	1	2	3	4	5	6
weeks, x							
Savings, \$y	5	15	р	35	45	55	65

(a) Find the value of p.

Answer $p = \dots$ [1]

(b) Using a scale of 2 cm represent 1 week, draw a horizontal x-axis for 0 ≤ x ≤ 6. Using a scale of 2 cm represent \$10, draw a vertical y-axis for 0 ≤ y ≤ 70. On the grid opposite, draw the graph of y=10x+5.

(c) Valerie has plans to buy a new bag that cost \$52. Use your graph, find the number of whole weeks she has to save in order to afford the bag.

(d) (i) Use your graph to find the gradient of the graph.

(ii) Explain what the gradient of the graph represents.

Answer



8 In the diagram below, *ABC* is a triangle and *DEFG* is a parallelogram. $\angle EDG = 78^\circ$, $\angle DEG = 42^\circ$ and $\angle BCH = 117^\circ$.





Answer° [1]





Answer° [2]

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(iii) angle EGC.

Answer° [2] (b) Explain whether BC is parallel to EG. DANYAL Answer BC is to EG because..... Epucanos [1]

9

 (a) At a shop, a salesman sells a pair of sunglasses to Aileen for \$359. He makes a loss of 5% on the cost price. Calculate the cost price of the pair of sunglasses.

Answer \$ [2]

(b) (i) Aileen also wants to buy a pouch. The marked price of the pouch is \$140. The shop offers her a 14% discount.

Calculate the total amount she has to pay for the sunglasses and pouch.

Answer \$ [2]

 Before she decides, she wants to find out the price of the same items from an online shopping site in the United States. The selling price of the pouch is 90 USD.

The selling price of the pair of sunglasses is 250 USD.

If she pays using credit card, the credit card company converts the prices to Singapore dollars based on the table shown below:

Currency exchange rate for using credit ca	ard			
Country	Rates			
Great Britain	1.885 SGD = 1 GBP			
New Zealand	0.95 SGD = 1 NZD			
United States	1.359 SGD = 1 USD			
Credit card charges for currency conversion 1.90 %				

For purchases	Shipping Charges
below 299 USD	2.99 USD
below 399 USD	7.99 USD

Determine if Aileen should purchase the items from Singapore or online Show your workings clearly.

Answer for Q9(b)(ii)







.....[3]

END OF PAPER

FAJAR SECONDARY SCHOOL 2021 END-OF-YEAR EXAMINATIONS SECONDARY 1E MATHEMATICS PAPER 1

MARK SCHEME

Prepared by: Mr Lim Yeun Chen

1		$\sqrt{0.64}, \ 0.72^{\frac{2}{3}}, \ \frac{38}{47}, \ 0.80^{\frac{1}{8}}$	B2	B1 for 3 correct
2	(a)	$\frac{47}{11a-2b}$	B1	
	(b)	$\frac{2x+1}{3} - \frac{x}{6} = \frac{2(2x+1)}{6} - \frac{x}{6}$ $= \frac{4x+2-x}{6}$	M1	For single fraction
		$=\frac{3x+2}{6}$	A1	
3	1	Percentage decrease = $\frac{\$1200 - 900}{\$1200} \times 100\%$ $= 25\%$	M1 A1	
4	(a)	$\begin{array}{l} x = 50 \\ y = 44 \end{array}$		B1 for 2
		z = 38	B2	correct
	(b)	$T_n = 62-6n$	B1	
	(c)	62-6n = -283 -6n = -345 n = 57.5 Since $n = 57.5$ is not a whole number/positive integer, -283 is not a term of this sequence.	B1	With conclusion if calculation is made
5	(a)	$ \begin{array}{l} x(2-y) + 13(2-y) \\ = (x+13)(2-y) \end{array} $	Bl	L.
	(b)	$24x^2y - 6xy$ = $6xy(4x - 1)$	B1	0
6		2 100 35 42		
		2 50 35 21		
		3 25 35 21		10
		5 25 35 7		
		$\frac{5}{5}$ $\frac{5}{7}$ $\frac{7}{7}$		
		$\frac{7}{1}$		
			M1	
		$LCM = 2^2 \times 3 \times 5^2 \times 7$		
		= 2100 sec	M1	Convert mins
		$=35 \min$		
		Time: 0800hrs + 35min = 0835hrs or 8.35am	A1	
7	(a)	3p = -39	-	
		p = -13	B1	

					BP~140
	(b)	15q - 24 = 31 + 3q			
		15q - 3q = 31 + 24	2	м1	
		12q = 55			
		$a = \frac{55}{100}$			
		$q = \frac{1}{12}$		A1	
8	(a)	1986 = 2000 (Correct to 1 sig. fig.)			
		6.38 = 6 (Correct to 1 sig. fig.)			
		442.5 = 400 (Correct to 1 sig. fig.)			
		242.5 = 200 (Correct to 1 sig. fig.)			
		$\frac{1986 \times 6.38}{100} \approx \frac{2000 \times 6}{100}$		M1	At least 2
		442.5 - 242.5 400 - 200			correct
		- 60		A1	
	(b)	1986×6.38			
		Exact value of $\frac{1}{442.5 - 242.5} = 63.3534$		B1	Exact value
		Since the estimated value is smaller than the exact value,	N	DI	Conclusion
		the estimation is an under estimate.	DAG	BI	Conclusion
		DIACATIC	EDUC		
9		Sum of ext. angles = 360°		M1	
		360 - 60 - 45 - 75 = 180		1111	
		$\frac{180}{100} = 6$		M1	
		30		A1	
10	(-)	n = 6 + 3 = 9		M1	
10	(a)	$\angle PRQ = 118$ (vertically opposite angles)			
		$\angle PQR = 180 - 22 - 118$ (sum of angles in triangle)		A1	
		=40			
	(b)	$\angle PSR = \angle PQR = 40$ (base angle of isosceles triangle)		B1	
		$\angle BPS = 40$ (alternate angles, $AB // CD$)			
	(c)	$\angle PSD = 180 - 40$ (adjacent angles on a straight line)		M1	
		=140		1	N.
		Reflex $\angle PSD = 360 - 140$ (angles at a point)		P'r	NON
		= 220	V D	A1	
11	(ai)	30x ¢	P	B1	
	(aii)	No. of blue markers = $25 - x$			
		Cost of blue markers			n.
		$= 45(25-x) \phi$		B1	
		Or $1125 - 45x \notin$			
	(bi)	1125 - 45x + 30x			
		=1125-15x		B1	
	(bii)	Total cost of markers = 945			
		1125 - 15x = 945		M1	
		15x = 180		M1	
		x = 12		Δ1	
		Therefore the number of blue markers $= 25 - 12 - 15$			

BP~141

							DF~14
12	(a)	Area of trapezium = $\frac{1}{2} \times (8)$	$(3+14) \times 4$			M1	Seen area of trapezium
		$= 44 \mathrm{cm}$	n ²				
		Area of semicircle $=\frac{1}{2} \times (3)$ = 25.13	$(4^2)(4^2)$ 3 cm^2			M1	Seen area of semicircle
		Area of shaded region $= 44$	4 - 25.13 = 18.9 c	m^2		A1	
	(b)	Perimeter of semicircle =	$\frac{1}{2} \times (2\pi)(4)$ 12.57 cm			M1	
		Perimeter of shaded region = 14 + 5 + 5 + 12.57 = 36.6 cm (3 sig. fig.)	1		Y	A1	
13	(a)	NA DA			DAT	LION	
		Number of hours spent on computer usage	Tally	Number of students	EDUC		
		1	++++	5		B1	Tally
		2	<i>\</i>	7			
		3	### ###	10			
		4	///	3	_	B1	No. of
			Total	25			students
	(b)	Average number of hours = $\frac{5(1) + 7(2) + 10(3) + 3(4)}{25}$				M1	
		$=2\frac{11}{25}\mathrm{hrs}$				A1	S.
	(c)	Required Percentage = $\frac{5}{25}$ = 20	×100 %			B1	014







FAJAR SECONDARY SCHOOL 2021 END-OF-YEAR EXAMINATIONS SECONDARY 1E MATHEMATICS PAPER 2

MARK SCHEME

Prepared by: Mr Lim Yeun Chen

1	(ai)	$\{-4 - [9 + (-3)]^2\} \times (-4)$	M1	Seen 36
		$= \{-4 - 36\} \times (-4)$	A 1	
		=160	AI	
	(aii)	$1\frac{1}{9} - \frac{1}{3} \div \left[\left(\frac{1}{8} - \frac{5}{16} \right) \times 3 \right] = \frac{10}{9} - \frac{1}{3} \div \left[\left(\frac{2}{16} - \frac{5}{16} \right) \times 3 \right]$	M1	Seen common denominator
		$=\frac{10}{9} - \frac{1}{3} \div \left(\frac{-9}{16}\right)$	4	16
	T	$=\frac{10}{9} - \frac{1}{3} \times \left(\frac{-16}{9}\right)$ 10, 16	M1	seen- 9
	2	$= \frac{1}{9} + \frac{1}{27}$		
		$=1\frac{19}{27}$ or $\frac{46}{27}$	A1	
	(bi)	$\frac{\sqrt{39} + 6.5}{22 - 2.7^3} = 5.5006$	B1	
	(bii)	5.501	B1	
2	(a)	$504 = 2^3 \times 3^2 \times 7$	B1	
	(b)	$504 = 2^3 \times 3^2 \times 7$		
		$504k = 2^3 \times 3^2 \times 7 \times 3 \times 7^2$		
		k = 147	B1	
3	(a)	b^2-3a		
		$d = \frac{1}{2ac}$		
		$(-5)^2 - 3(4)$	MI	Substitution
		$=\frac{1}{2(n)(1)}$	IVII	of values
		$2(4)(\frac{-1}{4})$	NO.	
		_13 CA		
		2	A1	
	(b)	$2 = \frac{2x - 1}{3} + \frac{3(1 - 5x)}{4}$		
		$2 = \frac{(4)(2x-1)}{(4)(3)} + \frac{(3)(3)(1-5x)}{(3)(4)}$	M1	Single
		$2 = \frac{8x - 4 + 9 - 45x}{12}$		
		24 = -37x + 5	M1	Remove
		37x = 5 - 24		fraction
		$x = -\frac{19}{37}$	A1	

					BP~14
4	(a)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
		3 : 5			
		x : y : z]	M1	y to same unit
		3×2:5×2			
		2×5:7×5		A1	
		6 : 10 : 35			
	(bi)	Total number of units $= 11 + 7 + 2$			
		= 20 units			
		$20 \text{ units} \rightarrow 1500$		м1	Equate total
		1		N	unit to 1200
		$1 \text{ unit} \rightarrow \frac{1}{20}$	Page 1	L D	2
		= 75	Draugh	A1	
		$11 \text{ units} \rightarrow 11 \times 75$	EDE	AI	-
		= 825			
	(bii)	Highest number of votes = 825			
		-150		M1	
		Difference = 825 - 150			
		= 675		A1	
5	(a)	Time taken to fly from Spore to Seoul = 5.5h		M1	Time taken
		Flight distance between Spore and Seoul			
		= 861×5.5		M1	
		= 4735.5			
		= 4736 km (nearest interger)		A1	Nearest integer
	(b)	Time taken to fly from Singapore to Taipei	D	TCA	TON
		$= \frac{3248}{2}$	E	M1	Distance /
		750			Speed
		= 4.330667 hrs		M1	Time taken to
		= 4 hrs 20 mm (hearest mm)			travel to taipei
		Include stopover, time airplane leave from Taipei to Seoul $0945 + 4$ hrs 20 min + 1h = 15 05 hrs		A1	
6	(a)	2 2000×100		M1	
		$\frac{100}{100}$			
		= \$7998		A1	
	(b)	Total payment			
		$=\frac{25}{100} \times 3999 + 140(24)$			
		100 - \$4350.75		M1	
		= 54339.73 Difference in amount if paid by cash			
				A1	
		PartnerInLearning			1

		= 4359.75 - 3999		
		= \$360.75		
7	(a)	<i>p</i> = 25	B1	
	(b)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	S1 P1 L1	Correct scale Correct points Straight line
	(c)	From the graph, when the cost of bag is $52 \rightarrow 4.7$ weeks	DI	
	(di)	From the graph, take (0, 5) and (3, 35) Gradient $\frac{35-5}{3-0}$ = 10	B1	Working must be shown
	(dii)	The gradient of the graph represents the increase of Valerie's saving per week	B1	1012
8	(ai)	$\angle EFG = 78^{\circ}$ (opposite angle of parallelogram)	B1	
	(aii)	$\angle FGC = 78^{\circ} \text{ (corresponding angle, } DE // GF\text{)}$ $\angle FCG = 180^{\circ} - 117^{\circ} \text{ (angles on a straight line)}$ $= 63^{\circ}$ $\angle GFC = 180^{\circ} - 63^{\circ} - 78^{\circ} \text{ (angles sum of triangles)}$ $= 39^{\circ}$	M1	
		OR $\angle GFC = 111^{\circ} - 78^{\circ}$ (exterior angle of triangle <i>GFC</i>) = 39^{\circ}	A1	
	(aiii)	$\angle EGF = 42^{\circ}$ (alternates angles, $DE // GF$) $\angle EGC = 78^{\circ} + 42^{\circ}$ =120°	M1	42° seen
	(b)	<i>BC</i> is not parallel to <i>EG</i> because $\angle EGC = 120^{\circ} \neq \angle FCH$. Hence, by converse of corresponding angles , <i>BC</i> is not parallel to <i>EG</i> .	B1	

9	(a)	$95\% \rightarrow \$359$	M1	
		$100\% \rightarrow \frac{100\%}{95} \times 100\%$		
		= \$377.89 (to 2 d.p.)		
		The cost price of the pair of sunglasses is \$377.89	A1	
	(bi)	Sale price of pouch at the shop = 0.86×140	M1	Price of
		= \$120.40 (in SGD)	1011	pouch in
		Local purchase of sunglasses and pouch at the shop in Singapore		Singapore
		Total cost = \$(359 + 120.40)		
		= \$479.40 (in SGD)	M1	Total cost if
				Singapore
			IAL	
	(bii)	Online purchase :	M1	7.99USD
		Total online price = USD $(90 + 250) + 7.99$ shipping fee		chosen
		= USD (340 + 7.99)		
		= USD 347.99 (inclusive of shipping)		
		Cost converted to Singapore dollar =		
		= 347.77 x 1.359		
		= \$472.91841 (in SGD)		
		Total credit card charge payable		
		= \$472.91841 × 101.9%		
		= \$481.90 (in SGD)	M1	Total cost if purchase online
			N	AL
		Since the online costs are higher than local purchase costs, Aileen	A1	With logical
		should not do online shopping in United States.	EDU	and
		EDU		conclusion