A second and a second a second and a second	l No: For exam Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	10 minutes iners' use / 4 / 5 / 4 / 4 / 5 / 4 / 5 / 4 / 4 / 4 / 4 / 4 / 4 / 4 / 4 / 4 / 4
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(SECONDARY) ame:	- No: For exam Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	40 minutes iners' use / 4 / 5 / 4 / 5 / 6 / 5
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ass: Year 1/ Register No. MATHEMATICS YEAR ONE END OF YEAR ASSESSMENT ednesday 5 th October 2016 structions to CANDIDATES rite in dark blue or black ink. ou may use a pencil for any diagrams or graphs. isswer ALL the questions in the space provided. mission of essential working will result in a loss of marks. e use of an approved scientific calculator is expected, where propriate. he degree of accuracy is not specified in the question, and if the swer is not exact, give the answer to three significant figures. Give swers in degrees to one decimal place. r π, use your calculator value, unless the question requires the swer in terms of π. u are reminded of the need for clear presentation in your answers. FORMATION FOR CANDIDATES e number of marks is given in brackets [] at the end of each estion or part question. e total number of marks for this paper is 65.	No: For exam Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	10 minutes iners' use / 4 / 4 / 4 / 4 / 4 / 4
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e number of marks is given in brackets [] at the end of each estion or part question. e total number of marks for this paper is 65. Parent's / guardian's Name: Signature:	Q12	S 876
e total number of marks for this paper is 65. Parent's / guardian's Name: Signature: Date:	P, A, U	s pos
e total number of marks for this paper is 65. Parent's / guardian's Name: Signature:	Total	/ 65
Parent's / guardian's Name:	SRG	S RGS
Signature: Date:		
		S RGS
<u>as RGS RGS RGS RGS RGS RGS RGS</u>		and the second
is paper consists of 15 printed pages and 1 blank page.		

				RGS ²						
1 (a)	RGS	₹√8,	0, 65 21	π, –6,	√ 49					
	Froi (i)	n the give rationa	n list, write I numbers,	e down all	the numb	ers that are	RGS	RGS	[1] RGS	
	RG ⁽ⁱⁱ⁾	natural	numbers.					RGS	^[1] RGS	
	(b) State	e the sma	llest posit	ive value	of p suc	h that 2^2	$\langle 7^5 \times p$ is	both a p	erfect	
	squa	ire and a p	erfect cube	e. Leave yo	our answe	r in index i	notation.	RGS	RGS	
RGS	RGS 3p	+1 p(p-	-4)	RGS	RGS	RGS	RGS	RGS	RGS	
RGS	xpress —	³ RGS ²	RGS	ingle naci	RGS	simplest to.	RGS	RGS	RGS	
Raffles Gir	ls' School (S	econdarv) 2	016 Year 1	Mathematic	s End of Yea	ar Assessmer	RGS	RGS	RGS	
RGS	RGS	RGS	RGS	RGS	RGS	RGS	RGS			

				RGS3						
3 GS In	the figure	below, PÇ	<i>QRSTU</i> is a	a polygon o	on a Carte	sian plane.	RGS			
		у А								
		RQ	RGS	RGS	RGS					
	RGS				RGS					
	RGS	ve ss			\sum_{T}^{S}					
RGS	RGS	Δ	RGS		RGS	RGS	x>			
		RGS		has						
		RISS	RGS ^U							
RGS	(i) Fin	the sum	of all the i	nterior and	les of the	polygon P	<u>רודי</u> ארי	RGS	RGS	
RGS	RGS	RGS	RGS		RGS	RGS	<u>9</u> 1010.	RGS	RGS	
RGS	(ii) Nar	ne the line	segment	of the poly	gon that h	as the equa	ation:			
	(a)	y=3,	RGS					RGS	RGS	
	(b) RGS	$y = x \cdot$ RGS	-3. RGS					RG5	[2] RGS	
Raffles Gi	rls' School (S	econdary) 2	2016 Year 1	Mathematic.	s End of Yee	ar Assessmei	nt KGS	RGS	Turn Over	

4 A fo	group of s llowing ta	students we ble shows	ere tasked the numbe	to told pap er of paper-	er-flowers flowers fo	olded in a	ners' Day o week by th	celebration em.	. The
RG	Number of	paper-flo	wers	10	20		30	40	RG
RG	Number	· of studen	ts	20	x	RGS	5	10	RG
RGL		RCS	RGS	RGS	RGS	<u>R CS</u>		RGS	RG
RGS(i)	Find t	he value o	f x if the n	nean numb	er of pape	er-flowers	folded in a	a week is 2	21.25. [3]
RGS(ii) Find the final wave	he maximi eek is 10.	ım value o	of x such the	at the med	lian numb	er of pape	r-flowers f	olded [2]

				RGS 5						
5 Go	ood News	s Café is ach of thes	selling tv e drinks is	vo new dr 70 cents ar	inks, <i>Refi</i> 1d \$1.05 r	reshing ar espectively	nd <i>Cheerfi</i> y.	ul. The co	ost of	
RGS (i)	RGS	Monday,	the café s	old x cups	of Refre	shing and	y cups of	Cheerful v	with a	
	tot	al producti d show tha	ion cost of t it reduces	$\frac{62.30}{5}$ for $3x + 3y$	these two $v = 178$.) drinks. Fo	orm an equ	lation in x	and y [1]	
RGS(iij) A and	total of 73 other equa	cups of F tion in x a	Refreshing a and y and h	and Cheen ence, find	<i>ful</i> was so d the num	old on that ber of cup	Monday. s of each	Form drink	
	RGS	a. RGS							RGS	
Raffles Gir	'ls' School (Secondary)	2016 Year 1	Mathematic	s End of Ye	ar Assessmei	nt 1995	RGS	Turn Over	

				RGS6						
6 3 2 tl	4 employee he survey ar	s from C e given b	ompany Eli elow.	te comple	ted a sta	ff satisfactio	n survey	. The scor	es for	
RGS	RC28	39	32 25	42	18	40 39	RGS			
RGS	17	26	35 44	19	30	41 13	RGS			
RGL	38	50	33 31	35	12	22 39	RGS			
(i	i) State th	ne value c	of <i>a</i> and of <i>b</i>	in the fre	quncy ta	ble below.			[2]	
Surv	vev score, x	10	< r < 20	20 < r <	30	30 < x < 40		0 < x < 50	KGS	
Fr	requency	RGS	5	a	RGS	10	RGS	b	RGS	
RGS	RGS	RGS	RGS	RGS	RGS	RGS	RGS	RGS	RGS	
RGS _{(i}	ii) ^{RG} Stat	e the mod	dal class.						[1]RGS	
RGS(i	iii) ^{RG} On	the grid b	elow, draw	a histogra	m to rep	resent the da	ta. GS		[2]	
	RGS 🛧	RGS	Scores	of staff satis	faction su	irvey	RGS			
	RG ¹²	RGS	RGS	RGS	RGS	RGS	RGS			
	RG10-				RGS	RGS	263			
	- - 8 uch	RGS	RGS	RGS	RGS	RGS	RGS			
	Freque	800	8.6.0	RGS	RGS	8000	830			
	RGS _	RGS	RGS	BGS	RGS		RGS			
	RGS ⁴	RGS	RGS	RGS	RGS	RGS	RGS			
	RG ⁶ 2-	900	969	0.00	RGS	RGS	RGS			
	RGS	RGS	RGS	RGS	RGS	RGS	RGS	Survey S	core, x	
<u></u>	RGS	1	0 20	30 Marthan	4	u 50 RGS	RGS	RGS	RGS	
Kaffles G	aris' School (S	econdary)	2016 Year 1 I	vatnematic	s End of Y	ear Assessmen	RG5			

				RGS7						
7 GS In	the diag	ram, ABC 3G. ZADB	and DEF = 60° .	are straigh $CBG = 72^{\circ}$	t lines th and $\angle BGl$	at are para $5 = 120^{\circ}$.	allel to ea	ch other,	AD is	
RGS ⁽ⁱ⁾	Statin (a)	ig your reas $\angle DBG$,	sons clearl	y, find	RGS	RGS				
	(b) (c)	$\angle BDE$, $\angle FEG$.							[6]RGS	
(ii)) State	with reasor	ning, the re	elationship	between t	he lines B	D and GE.		[1] _{RGS}	
					D	>>	RGS	F		
				RGS	600	RGS 1	20° G			
				RGS	RGS	R	720	RGS		
				RGA	Rss		B	KGS	CRGS	
Raffles Gir	ls' School ((Secondary)	2016 Year 1	Mathematic:	s End of Ye	ar Assessmei	nt	RGS	[Turn Over	

				RGS ⁸						
8 SI	naron is pl	anning to l	ouy a car.		9	Red	uced to	RGS	Pres	
	RGS	-	RGS		RGS	\$14	18,000		RGS	
	É	O A	a los		*V	Vith limite	ed units or	ly RGS	RGS	
	RGS	RGS			RGS					
(i) RGS) The car, gi	ar would o ving your	cost \$148,0 answer to	000 after a the nearest	12% diso dollar.	count. Find	d the origi	nal price	of the [2]	
RGS (ii	i) The to made	otal cost of when the c	f manufact ar was sol	uring the order of	car is \$90, n at the dis	000. Calcuscounted p	alate the price.	ercentage	profit [2]	
Raffles G	irls' School (Secondary	2016 Year 1	Mathematic	s End of Ye	ar Assessme	RGS	RGS	RGS	
RGS	RGS	RGS	RGS	RGS	RGS	RGS	RG5			

				RGS 9						
RGS(iii	i) The c subsec	ompany o ment pavr	ffers Shar ments of S	on a hire- 2000 mon	purchase thly for a	scheme; a a period o	a 30% do of 5 vears.	wnpaymer Calcula	nt and the	
	additio	onal cost S	haron woi	uld have to	pay if sh	e took up	the hire-p	urchase sc	heme. [3]	
Raffles Gir	rls' School (:	Secondary) 2	2016 Year 1	Mathematic	s End of Ye	ar Assessmei	nt RGS	RGS	[Turn Over	

				RG 10						
9 A 1 a d	nan trave istance-ti	lled to a mi me graph o	useum, wh f his journ	ich is 20 k ey.	m away f	rom a town	n P. The d	iagram bel	ow is	
	Distanc	e from tow	n P (km)							
	RGS	- R 66	- RGS -				RGS			
	R 66 20 -	+			RGS	- [RG RG 	++ RG 3 ++			
	RGS					-Res-	RGS			
	16 -				RdS		+			
	R 12 -	R55-			Rds-	1 I 1 I 1 I 1 I 1 I				
	RGS 8-				Res	-1				
	RGS	RIS	- R 55 -	- RGS-	RGS		RGS			
	RGS			+ - RCS +	Res		+ 1 1 + 1 1	RGS		
	Town P	RGS 1	RGS 2	RGS 3	RGS	4 RGS	5RGS	(hours)		
RGS _(i)	Give a	physical in	nterpretatio	on of the ve	ertical-int	ercept.		RGS]]RGS	
RGS(ii)	After 2	2 hours into	his journe	ey, how far	was the	man from t	he museu	m?	1]RGS	
RGS(iii) What	was the tim	e taken by	the man to	travel 10) km?		RGS	1]RGS	
Raffles Gir	ls' School (Secondary) 2	016 Year 1	Mathematics	End of Yer	ar Assessmer	RGS	RGS	RGS	
RGS	RGS	RGS	RGS	RGS	RGS	RGS	RGS			

				RGS11						
RGS (i	v) (a) (b)	Find the g Hence, ex	radient of plain the p	the straight hvsical inte	line. rpretatior	n of this gr	adient.		[2] NGS [1]	
	RGS	RGS	RGS	RGS	RGS	RGS	RGS		RGS	
10 Ir tr	the diag iangle <i>E</i> (gram, trapez CD is 53 cm	zium ABC . n ² and the	D and trian ratio of AB	gle <i>ECD</i> : <i>DC</i> = 1:	have com 2, find the	mon heigh area of tr	nt <i>AF</i> . If a apezium A	Irea of <i>BCD</i> .	
									RGS	
						E	<u>A</u>	B		
						R	7+	RGS	RGS	
						De De	ROF5	RGS	L C GS	
Raffles G	irls' School	(Secondary)	2016 Year 1	Mathematic	s End of Ye	ar Assessme	nt	RGS	[Turn Over	

				RG 12						
11 Co Fig	oling ston ure 1 is s	ies are stai uch a sphe	inless stee rical cooli	l objects us ng stone wi	ed for ch ith a radiu	illing beve s of 0.5 cm	erages. n.		RGS	
RGS(i)	Find the former of the former	the volume of π	of one c	ooling stor	ne. Leave	your ans	wer in	Figure	pe:	
	RGS	RGS					RGS	RGS	RGS	
RG ^S (ii)	Figure with a	2 is a con star-shape	tainer used d base and	d to hold or a height o	ange juice f 30 cm.	e in a party	y. It is mad	le up of a	prism	
	Given juice a	that 300 or added	of the identities to fill the	ntical cooli container	ng stones to the bri	from (a) m, find th	and 6230 ie area of	cm ³ of o the star-sl	range naped	
	base.							RGS I	RGS	
							\sum		▲ 30 cm	
							V	N	VIGS	
							RGS			
							RGSFi	gure 2		
Raffles Giri	ls' School (S	Secondary) 2	2016 Year 1	Mathematic:	s End of Yec	ar Assessmei	RGS 1t	RGS		
						RGS				

13 (iii) There is a tap at the bottom of the container in Figure 2 which only allows orange juice to flow out. Figure 3 is a conical glass used to hold the orange juice. Supposed that the vertical height, slant height and base diameter of the conical glass are 7.5 cm, 7.9 cm and 5 cm respectively, calculate the internal surface area of the conical glass, (a) [2] (b) the maximum number of conical glasses that can be filled to the brim with 6230 cm³ of orange juice. [3] 5 cm Ì 7.9 cm ≫ 7.5 cm V *; = , * Figure 3 Raffles Girls' School (Secondary) 2016 Year 1 Mathematics End of Year Assessment [Turn Over

				RGS ¹⁴						
12 A :	series of f	igures is fo	ormed usir	ng sticks and	d circles.	The first th	hree figure	s are as sl	nown.	
	RGS	RGS	۰ م	 - P	RGS	Î	l GS	RGS		
	RGS			\rightarrow	RGS	Å RGÅ	GS	RGS		
	Fig	ure 1			RGS	╞╼╺╋╴	IGS	RGS		
			RGS	gure 2		b b Figu	 ire 3	RGS		
(i)	Draw	Figure 4 in	the space	below.					[1]	
(ii)	Comp	ete the tab	le						[2]	
KG5(n)	Comp		10.4(0.5)				KGS	KGO		
RGS(II)	Figure	e Number	N1	umber of S	ticks	Numbe	r of Circle		RGS	
RGS	Figure	e Number	Ni Ni	umber of S 4	ticks	Numbe	r of Circle		RGS	
RGS RGS	Figure	e Number	Ni Ni	umber of S 4 12	ticks	Numbe	r of Circle 4 9	2 S	RGS	
RGS	Figure	e Number 1 2 3	Ni Ni	umber of S 4 12 24	ticks	Numbe	r of Circle 4 9 16		RGS RGS RGS	
RGS RGS	Figure	e Number 1 2 3 4		umber of S 4 12 24	ticks	Number	r of Circle 4 9 16		RGS RGS RGS RGS	
RGS RGS RGS RGS	Figure	e Number 1 2 3 4 5		umber of S 4 12 24	ticks	Number	r of Circle 4 9 16		RGS RGS RGS RGS RGS	
RGS RGS RGS RGS	Figure Figure	e Number 1 2 3 4 5 possible to f	Torm a figu	umber of S 4 12 24 ure with 842	ticks	Number	r of Circle 4 9 16 s of figure	s? Explain	RGS RGS RGS RGS RGS	
RGS RGS RGS RGS (iii RGS (iii	Figure Figure	e Number 1 2 3 4 5 ossible to fr.	Torm a figu	umber of S 4 12 24 ure with 842	ticks	Number	r of Circle 4 9 16 s of figure	s? Explain	RGS RGS RGS RGS RGS 1] RGS	
RGS RGS RGS RGS (iii RGS	Figure Figure	e Number 1 2 3 4 5 possible to f	Form a figu	umber of S 4 12 24 ure with 842	ticks	Number	r of Circle 4 9 16 s of figure	s? Explain	RGS RGS RGS RGS 1] RGS RGS	
RGS (iii RGS (iii RGS (iii RGS RGS	Figure Figure	e Number 1 2 3 4 5 ossible to f r. RGS	Form a figu	umber of S 4 12 24 ure with 842	ticks	Number	r of Circle 4 9 16 s of figure	s? Explain	RGS RGS RGS RGS RGS [1] RGS RGS	
RGS RGS RGS RGS RGS RGS RGS	Figure Figure	e Number 1 2 3 4 5 ossible to f	Form a figu	umber of S 4 12 24 Ire with 842	ticks	Number	r of Circle 4 9 16 s of figure	s? Explain	RGS RGS RGS RGS RGS [1] RGS RGS RGS	
RGS [RGS [RGS [RGS (iii RGS (iii RGS RGS RGS RGS RGS	Figure Figure	e Number 1 2 3 4 5 ossible to f r. Secondary)	Torm a figu	umber of S 4 12 24 Ire with 842	ticks	Number	r of Circle 4 9 16 s of figure RGS nt	s? Explain	RGS RGS RGS RGS RGS RGS RGS RGS RGS RGS	

				RGS15						
RGS(i	v) (a)	Write dow n.	n, in term	ns of <i>n</i> , an e	expression	n for the n	umber of o	circles in I	Figure	
	(b)	If there is formed with	unlimited th 2500 ci	supply of s rcles?	ticks, wh	at is the la	rgest Figu	re that cou	uld be [1]	
				END OF P	APER					
Raffles Gi	rls' School	(Secondary)	2016 Year 1	Mathematics	s End of Ye	ar Assessme	nt	RGS	RGS	

				16						
			RETH	IS IS A BL	ANK PAG	ERGS				
Raffles Gi	irls' School (Secondary).	2016 Year 1	Mathematic	s End of Ye	ar Assessme	RGS nt	RGS	RGS	
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