

REIGATE GRAMMAR SCHOOL

13+ Entrance Examination Exemplar MATHEMATICS

Paper 1 Time: 30 minutes Non-Calculator

Name:

- Work through the paper carefully
- You do not have to finish everything
- Do not spend too much time on any single question
- Show any working in the spaces provided

Page	3	4	5	6	7	8	Total
Score							
Marks	7	6	2	11	7	7	40



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3.	Calculate the following:	
	0.37×5.6	
		[2]
		[-]
4	(a) Write down an expression for the n^{th} term of this sequence:	
	(a) write down an expression for the <i>n</i> - term of this sequence.	
	3 - 1 - 5 - 9	
		[2]
	(b) Determine if the number -105 lies in this sequence.	
	You must show clear reasoning.	
		[2]



6.	Simplify the following:		
	(a) $a - 2a + 3a - 4a$		
			r11
		•••••	[[']
	(b) $2b - 3a + b - a$		
			503
			[2]
	(c) $4x + xy - 8x + 2yx$		
			[2]
7.	Expand and simplify the following:		
	Expand and simplify the following.		
	(a) $5(3m-7)$		
			[1]
	(b) $x(x - 3y - 9)$		
			[2]
	(c) $7(5-k) + 2(4+5k)$		
			[3]

8.	Fully factorise the following:	
	(a) 15 <i>a</i> – 10	
	(b) $16a^3 - 24a^2$	[1]
		[2]
9.	Calculate the following, giving your answer as a mixed number in its simplest form:	
	1 (2 2)	
	$2\frac{1}{3} \div \left(3\frac{1}{3} - 2\frac{1}{9}\right)$	
		[4]



END OF TEST

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