

## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME					
	CENTRE NUMBER	CANDIDATE NUMBER				
*	MATHEMATICS	058	31/11			
761	Paper 1 (Core)	October/November 1	2012 hour			
7 7	Candidates answer on the Question Paper.					
8 6 3 *	Additional Materi	als: Electronic calculator Geometrical instruments Mathematical tables (optional) Tracing paper (optional)				

## READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

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  $\pi$ , use either your calculator value or 3.142.

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 56.

This document consists of **12** printed pages.





4	A football ground seats 28750 people when it is full.	For Examiner's
	(a) Write 28750 correct to the nearest thousand.	Use
	<ul><li>Answer(a) [1]</li><li>(b) One day 17250 people attended a football match.</li></ul>	
	Work out 17250 as a percentage of 28750.	
	Answer(b) % [1]	
5	Solve the following equations.	
	(a) $x + 9 = 16$	
	Answer(a) x = [1]	
	<b>(b)</b> $6y = 27$	
	Answer(b) y = [1]	
6	On a mountain, the temperature decreases by $6.5 ^{\circ}$ C for every 1000 metres increase in height. At 2000 metres the temperature is 10 $^{\circ}$ C.	
	Find the temperature at 6000 metres.	
	Answer °C [2]	

3

4					
7	Simplify the following expression. 3j - 4k - 2 + 5j + k - 6		For Examiner's Use		
	Answer	[2]			
8	The train fare from Bangkok to Chiang Mai is 768 baht. The exchange rate is $\pounds 1 = 48$ baht.				
	Calculate the train fare in pounds (£).				
	Answer £	[2]			
9	Use your calculator to find the value of $\frac{8.1^2 + 6.2^2 - 4.3^2}{2 \times 8.1 \times 6.2}$				
	Answer	[2]			

5

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7

15 The table shows how 45 students each travel to college.

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