	UNIVERSITY OF CAMBRIDGE INTER International General Certificate of Sec	NATIONAL EXAMINATIONS ondary Education	nbrio-
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
MATHEMATIC	6	0581	/23
Paper 2 (Extended)		October/November 2012	
		1 hour 30 min	utes
Candidates ans	wer on the Question Paper.		
Additional Mate	rials: Electronic calculator Mathematical tables (optional)	Geometrical instruments 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 70.

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









		5		Bac For
Mass of parcel ( <i>m</i> kilograms)	$0 < m \le 0.5$	$0.5 < m \le 1.5$	$1.5 < m \le 3$	iner's
Frequency	20	18	9	Conn

The table above shows information about parcels in a delivery van.

John wants to draw a histogram using this information. Complete the table below.

12

Mass of parcel ( <i>m</i> kilograms)	$0 < m \le 0.5$	$0.5 < m \le 1.5$	$1.5 < m \le 3$
Frequency density		18	

[2]

13 Write the following as a single fraction in its simplest form.

$$\frac{x+2}{3} - \frac{2x-1}{4} + 1$$





Answer Angle BAC =









Question 24 is printed on the next page.



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