

	UNIVERSITY OF CAMBRIDGE INT International General Certificate of S		mbridge.com
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
MATHEMATIC	S	0581	1/11
Paper 1 (Core)		May/June 2	013
		1 h	our
Candidates and	swer on the Question Paper.		
Additional Materials: Electronic calculator Tracing paper (optional)		Geometrical instruments	

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.

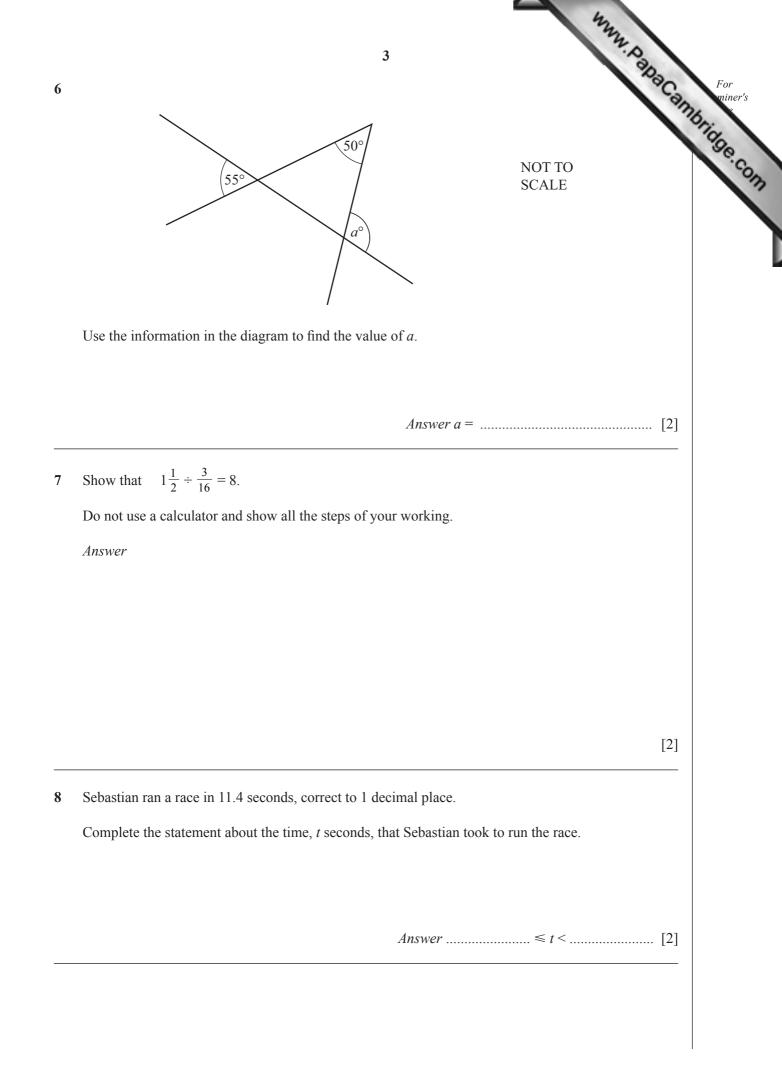
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

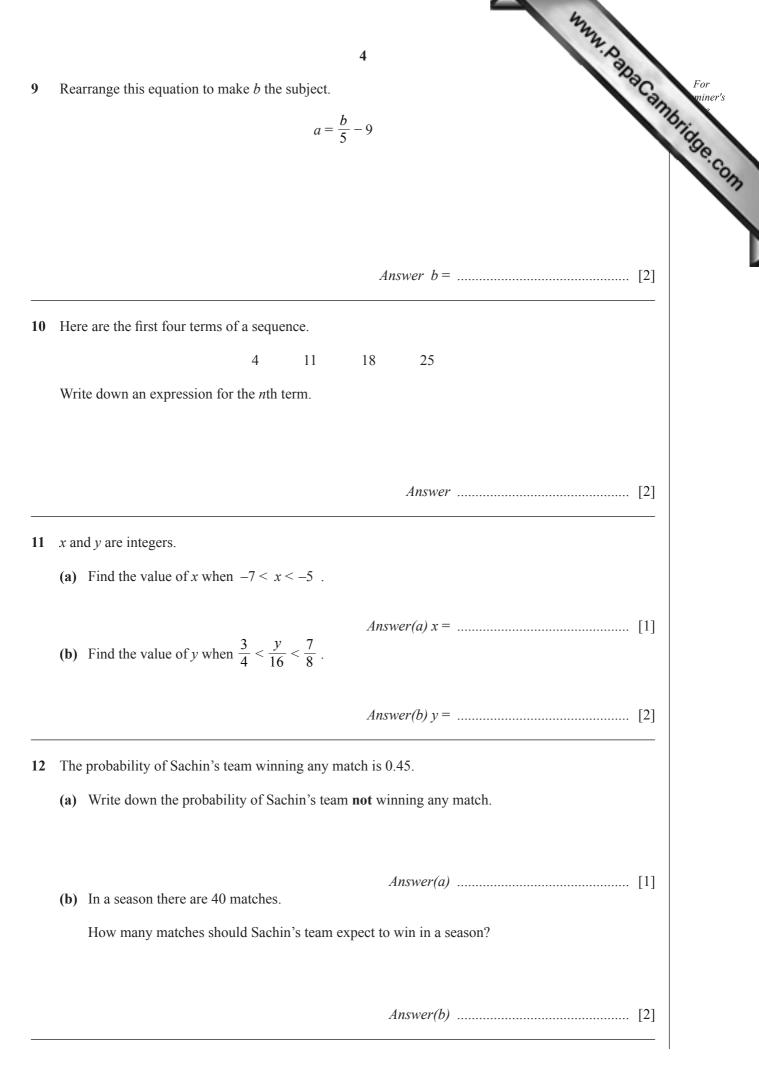
At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

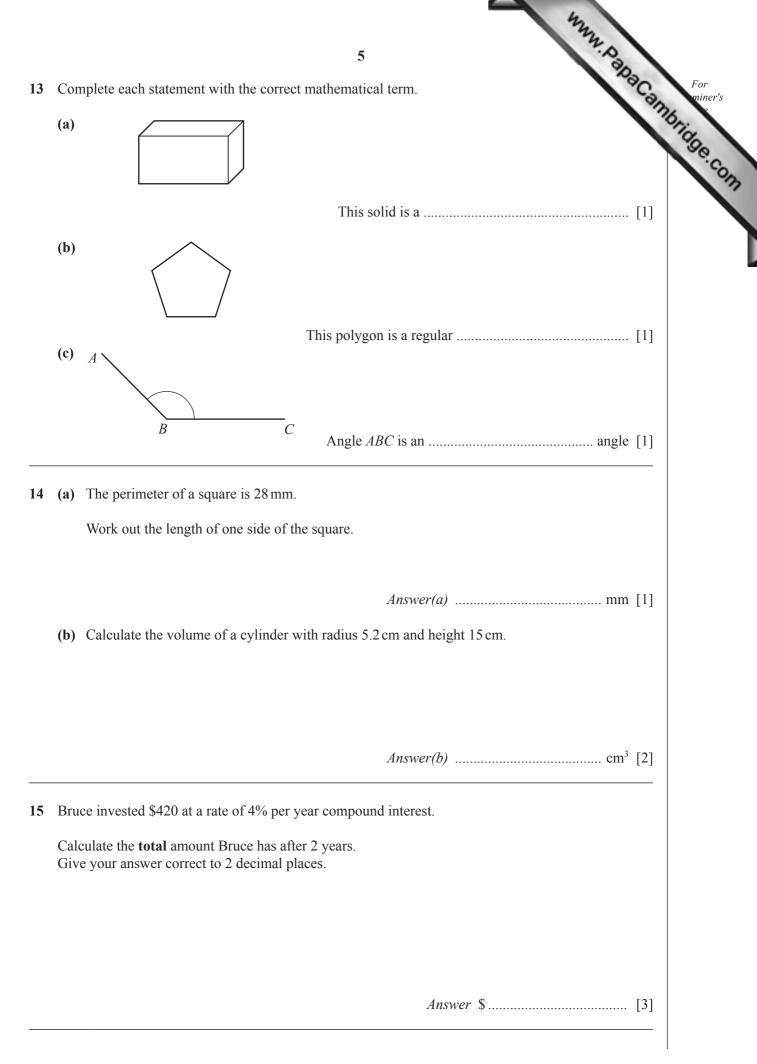
This document consists of 8 printed pages.

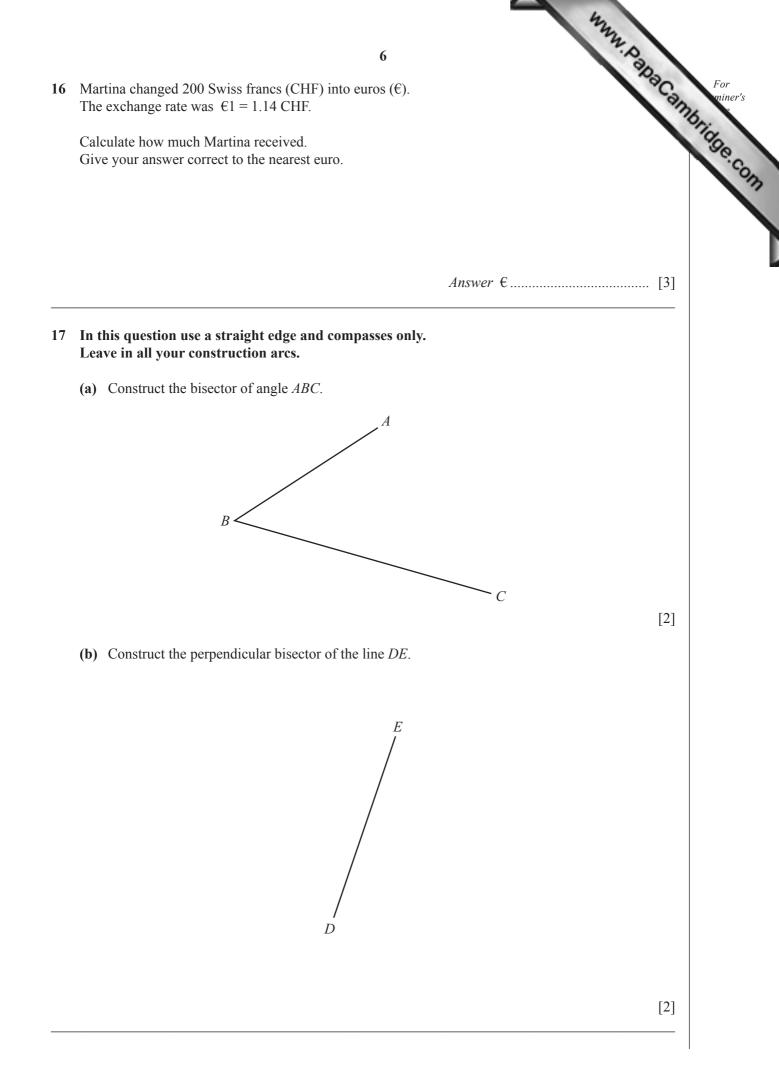


	Mary Mary
	2 Write 45% as a fraction in its simplest form.
	2 Write 45% as a fraction in its simplest form. Answer
2	One January day in Munich, the temperature at noon was 3° C. At midnight the temperature was -8° C.
	Write down the difference between these two temperatures.
	<i>Answer</i> °C [1]
	(a) Calculate $\sqrt{5.7} - 1.03^2$.
	Write down all the numbers displayed on your calculator.
	<i>Answer(a)</i>
	(b) Write your answer to part (a) correct to 3 decimal places.
	Answer(b) [1]
4	Pedro and Eva do their homework. Pedro takes 84 minutes to do his homework.
	The ratio Pedro's time : Eva's time = $7 : 6$.
	Work out the number of minutes Eva takes to do her homework.
	Answer min [2]
5	Write each of the following as a single vector.
	(a) $\binom{6}{1} + \binom{-4}{2}$
	(b) $4\binom{2}{-3}$
	Answer(b) $()$ [1]

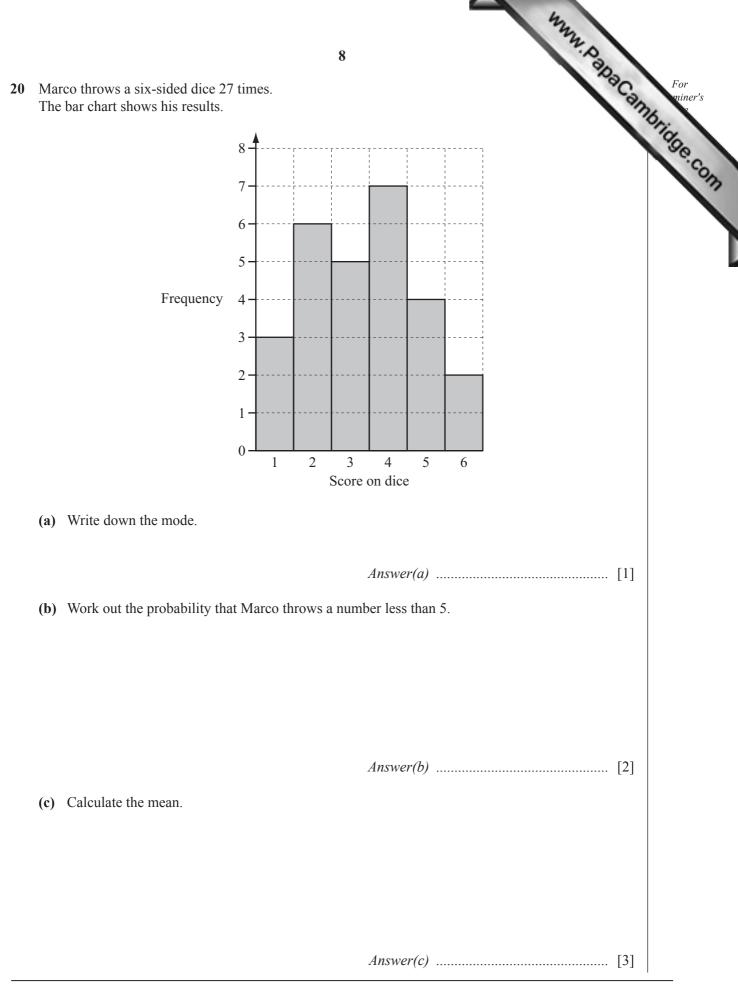








(a)	Which two of	these have	the same	value?				oacan.
		5-2	$\frac{2}{5}$	$\left(\frac{1}{2}\right)^2$	$\left(\frac{2}{5}\right)^2$	0.2 ²	MANN POT	10
2)				Ar	ıswer(a)	and	l	[2]
(b)	Simplify. (i) $a^6 \times a^3$							
	(1)							
					Answer(b)(i	i)		[1]
	(ii) $24b^{16} \div 6b^{16}$	b^4						
					Answer(b)(ii	i)		[2]
<u> (a)</u>	Multiply out the	he hracket						
(4)	wumpry out a	ne orderets	5. $5(x+1)$	3)				
4)		4.g			Answer(a)	ı)		[1]
(b)	Factorise com		$2xy - 3x^2$					
					Answer(b))		[2]
(c)	Solve.	N4 E 1			·	,		
	5x - 2	24 = 51						



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