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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

0580 MATHEMATICS

0580/12

Paper 1 (Core), maximum raw mark 56

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

F	Page 2	Mark Scheme	Syllabus	1
		IGCSE – October/November 2012	0580 ×	Sec.
Abbre	viations			andridge
cao	correct ans	wer only		Or.
cso	correct solu	ution only		8
dep	dependent	•		260
ft	follow thro	ough after error		On
isw		sequent working		
oe	or equivale			
SC	Special Ca			

Abbreviations

without wrong working www

Qu.	Answers	Mark	Part Marks
1		1	
	$\frac{15}{56}$		
2	620	1	
	(a) 8000 cao	1	
3	(b) 0.08 cao	1	
4	(a) 91 700 000	1	
	(b) 9.17×10^7	1 ft	Their (a) in standard form.
5	(a) $\frac{5}{19}$ oe	1	0.263
	(b) $\frac{11}{19}$ oe	1	0.579 or 0.5789
6	[C=] $\frac{F-32}{1.8}$ oe final ans.	2	M1 for first or second step correct e.g. $F - 32 = 1.8 C$
7	$\begin{pmatrix} -2 \\ -10 \end{pmatrix}$	2	B1 for each correct component or $[3\mathbf{b}] = \begin{pmatrix} -6 \\ -9 \end{pmatrix}$ seen
8	(a) -7	1	
	(b) (+) 4	1	
9	16	3	M2 for $\frac{40.60-35}{35} \times 100$ or $\frac{40.6}{35} \times 100-100$ or
			M1 for $40.60 - 35$ or $\frac{40.6}{35}$
10	(a) 12 and/or 18	1	
	(b) 16	1	
	(c) 13	1	

		www.
Page 3	Mark Scheme	Syllabus
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My.
0 × 60 or 1500 × 15 ÷ 10 figs 225
figs 225
ss 85
3h 15min, oe seen or 53.75
3.15
ng base angle of isosceles
agram). – their (a)) ÷ 2
or equivalent in stages.
or 693.38 or 693.375
the nearest dollar
or 93.38
$(3x^2 - 4xy)$
0 for both cases
t
or better, or
5.6^2 or better.
eir (a) / 7.8 or better
sum all the angles or any sum of angles of a pentagon.