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CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the October/November 2013 series

7101 COMMERCIAL STUDIES

7101/02

Paper 2 (Arithmetic), maximum raw mark 100

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 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2	Mark Scheme	Syllabus	Paper
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Section A

1	(a) -12	3	M1 36 or 16 or 64 M1 52 or -48
	(b) 10(.0)	3	M1 36.1 M1 46.1 – "36.1"
	(c) 17	3	M1 $2\frac{5}{6}$ or $\frac{17}{6}$ M1 $\frac{1}{6}$ allow equivalent fractions
2	(a) 0.41	2	M1 0.405(405) or 0.4(0)
	(b) $\frac{15}{37}$	2	M1 $\frac{75}{185}$ oe
	(c) 41 must be 2sf	3	M1 0.75/1.85 M1 ×100 B1ft their ≥ 3sf working to their 2 sf answer
3	(a) $1\frac{1}{4}$ or $\frac{5}{4}$	2	M1 125/100 or 1.25
	(b) 868	2	M1 14 × 6200/100
	(c) 8	3	M1 6 – 5.52 M1 "0.48"/6 × 100 or M1 1 – (5.52)/6 M1 "0.08" × 100
	(d) 3360	3	M2 40000 × 3 × 2.8/100 or M1 using I = PRT/100
4	(a) 50	6	M1 105600 – 88000 M1 "17600" – 9600 A1 8000 M1 660 × "8000" dep M1 ÷ 105600
	(b) 197.82	8	M1 10000×10.9369 M1 " 109369 " × $2/100$ M2 $109369/10.2029$ (or M1 k / 10.2029) k ≠ 10000 M1 " 10719.40 " × $3/100$ M1 " 10719.40 " – 10000 M1 " 10719.40 " – (" 200 " + " 321.58 ") See AG for other versions
5	(a) 628.54	6	M1 20000 × 1.042 M1 × "1.042" M1 × "1.042" (20840 21715.28 22627.32) B1 36 M1 "22627.32" / "36"
	(b) May 14 cao and www	6	B1 correct date (or date shift) column used M1 products M1 ∑products B1 9600 M1 "∑"/ "9600"
6	(a) graph	4	P3 –1 eeo C1 smooth curve through (7 or) 8 points
	(b) ft from graph	2 FT	read their graph \pm 100 M1 some indication of 0.5 or 6 months used on their graph
	(c) 5000	2	M1 12500 – 7500
	(d) 69.6	4	M1 12500 – 3800 M1 "8700" / 12500 M1 × 100

Page 3	Mark Scheme	Syllabus	Paper
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7	(a) bar chart	4	B1 equal widths B2 all heights correct (B1 5 or 4) B1 labels in correct place
	(b) 1240	4	M2 xf (−1 eeo) M1 ∑xf 180 + 200 + 350 + 120 + 70 + 320
	(c) 1736	2	M1 (b) × 1.4(0)
	(d) 86.8(0)	2	M1 (c) × 0.05 or $\frac{5}{100}$

Section B

8	(a) 96	5	B1 15 B1 14 B1 7 for Sunday M1 "15" × 5 + "14" + "7"
	(b) (i) 800	4	M1 200 × 5 M1 "1000" × 20 /100 M1 "1000" – "200" or M1 200 × 20/100 M1 200 – "40" M1 "160" × 5
	(ii) 912	3	M1 (b)(i) × 14/100 M1 (b)(i) + "112"
9	(a) 20 cao	1	No mention of 15 on answer line
	(b) 19 www	2	M1 20 th or 20.5 th element
	(c) 18.7	4	M1 xf M1 \sum xf M1 \sum xf / 40 (= 748/40)
	(d) 95	5	B1 2 seen M1 2/40 M1 2/40 × 100 (= 5) M1 100 – "5" see AG for alternative method
10	(a) (i) 22	2	M1 21 × 110/105
	(ii) 120	2	M1 24 × 105/21 or 24 × 110 / (a)(i)
	(b) 32400 cao 43600 cao 66000 cao	8	M1 correct income – correct expenses 1 M1 – correct expenses 2 M1 k × 20/100 (any k) M1 k – (20/100) × k (same k) M1 2 + 3 + 5 soi M1 / 10 M1 their post-tax income × 2, 3 and 5 see AG for other methods
11	(a) (i) 1402.5(0)	4	M1 5000 × 27.5/100 M1 "1375" × 2/100 M1 1375 + 27.5 see AG
	(ii) 1.68(3)	2	M1 84.15 / 5000
	(iii) 36.5	3	M1 1806.75 / 0.99 M1 "1825" / 5000
	(b) 3000	3	M1 2865 / 95½ M1 × 100