CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge Ordinary Level

MARK SCHEME for the October/November 2014 series

7101 COMMERCIAL STUDIES

7101/21

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 2014 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.



Page 2	Mark Scheme	Syllabus	Paper
	Cambridge O Level – October/November 2014	7101	21

1	(a)	17	[3]	M1 18 M1 7 + 18 – 8 or 25 – 8 or 7 + 10 or –1 +18
	(b)	40.21	[2]	M1 2.41
	(c)	$\frac{1}{3}$ cao	[4]	M1 7/24 M1 21/24 (or 7/8) M1"7/24" × "24/21" oe
2	(a)	0.267 cao	[2]	M1 0.266 or 4/15 oe
	(b)	101 000	[2]	M1 100 800 oe or 10.1 x 10 ⁴ oe
	(c)	25.5	[3]	M1 300 × 85 [= 25 500] M1 ÷ 1000
3	(a)	L 175, GL 65, GLS 120	[7]	Deduct 1 mark if correct angles in wrong order, unless TE applies M1 70 + 26 + 48 (=144) M1 70/"144" × 360 M1 26/"144" × 360 M1 48/"144" × 360 (or 360 – 2 angles) A1, A1, A1 each of correct answer (A marks imply corresponding M1)
	(b)	8763.2(0)	[6]	M1 7800 – 3500 [=4300] M2 their 4300 × 0.112 x 2 or M1 for two of the three multiplied A1 963.20 M1 7800 + their interest
4	(a)	163 000	[3]	M1 ∑salaries [815 000] M1 ÷ 5
	(b)	10 374 000	[2]	M1 420 × 24 700
	(c)	25 688	[2]	M1 156/150 [= 1.04] × 24 700
5	(a)	15 www	[4]	M1 9, 12, 13, 14, 14, 16, 17, 19, 20, 20 or reverse M1 Identify <i>their</i> two 'middle' values (=14 & 16) M1 Find mean of their two middle values
	(b) (i)	199.8(0)	[3]	M2 1.11 × 180 or M1 11/100 × 180
	(ii)	160	[3]	M1 220 – 180 (=40) M1 x4
	(iii)	15	[3]	M1 $2.53 - 2.20$ (=0.33) oe M1 their $0.33/2.20 \times 100$ oe Or M1 $(2.53/2.20) \times 100$ [=115] M1 $- 100$

Page 3	Mark Scheme	Syllabus	Paper
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6	(a)	480	[7]	M1 $290000/1000 \times 1.60$ (=464) M1 $0.12/100 \times 30000$ A1 36 M1 their 464 + their 36 (=500) M2 their 500×0.96 or M1 500×0.04
	(b)	42.6(0)	[4]	M2 their (a) \times 1.065 or M1 6.5/100 \times (a) M1 their 511.20/12 but dep M2 or M1 or M1 their (a)/12 (=40) M2 their 40 \times 1.065 or M1 their 40 \times 6.5/100
7	(a) (i)	24.5	[1]	
	(ii)	Feb, Nov	[2]	B1 for 1 correct
	(iii)	26	[1]	
	(iv)	Jan, Feb	[2]	B1 for 1 correct
	(v)	10.5	[2]	Accept 10.25 to 10.75 M1 their (a)(i) – 14 evaluated
	(b)	4754.75	[4]	M2 6500×0.77 or M1 6500×0.23 (=1495) M1 "5005" \times 0.95 If 0 scored SC2 6500×0.72 or SC1 6500×0.28
	(c)	56	[4]	M1 1445 – 0900 M1 5.75 M1 322 divided by their time
			SECTIO	ON B
8	(a)	2.3, 2.55, 2.8	[3]	Allow 2.53 to 2.57 B1 for each correct
	(b)	125	[3]	M1 $4.05 \times 10^6 - 1.8 \times 10^6 = 2.25 \times 10^6$ M1 their $2.25/1.8 \times 100$
	(c)	1.6 www	[2]	M1 1.8/1.125
	(d)	516 698 000	[2]	M1 $3.25 \times (10^6) \times 158.984$
	(e)	6000	[2]	M1 499 200/83.2
9	(a) (i)	20 000	[2]	M1 844 000/42.2
	(ii)	91770	[4]	M1 3000 + 6500 + 8200 (=17700) M1 20000 - their 17700 (=2300) M1 their 2300 × 39.9
	(b)	171.69	[2]	M1 their 17 700/100 × 0.97
	(c)	12 20 (pm)	[4]	M1 20.30 + 11.50 (=32.20) M1 their 32.20 – 24 00. M1 + 4

Page 4	Mark Scheme		Paper
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10	(a)	£83879	[5]	M1 75000 × 1.038 o.e. (=77850) M1 their 77850 × 1.038 (=80808.30) M1 their 80808.30 X 1.038 Or M3 75000(1 + 3.8/100) ³ B1 83879. 0 (ft their B1 to nearest pound)
	(b) (i)	£52720	[3]	M1 86 000 – 20 100 (=65 900) M1 × 0.8 oe
	(ii)	£21088	[3]	M1 176/440 oe M1 × their (b)(i)
	(c)	Apple	[1]	140 scores 0
11	(a)	\$29408	[4]	M1 0.038 × 116 000 oe A1 4408 M1 their 4408 + 25 000
	(b)	\$27 126.40 cao	[8]	M1 their 29408 – 12000 (=17408) M1 0.05 × 8 000 A1 400 cao M1 "17408" – 8000 (=9408) M1 their 9408 × 0.2 oe A1 1881.60 ft M1 (a) – (400 + their 1881.60)