MARK SCHEME for the October/November 2008 question paper

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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ABBREVIATIONS

cao	Correct answer **only**
o.e.	or equivalent
www	Without wrong working
√	Work has been followed through after an error

Section A

1	(a)	£3833.13 allow 383313 p(ence)	3	**M1** $\frac{5}{8}$ × 6133 **A1** 3833.125 **B1**√
	(b)	5.1	3	**B1** 6.375 **B1** 1.275
	(c)	£7.40	3	**M1** 5.11/0.691 **A1** 7.395....
2	(a)	$\underline{27}$ cao 40	3	**B1** 67.5/100 oe **B1** 675/1000 oe
	(b)	1167 cao	3	**M1** $\frac{24}{100}$ × 4862 **A1** 1166.88 **B1**√
	(c)	8.33 or $8\frac{1}{3}$	3	**M1** 0.46 **M1** $\frac{"0.46"}{5.52}$
3	(a)	40	5	**M1** 120 × 45/100 **M1** 120 – 54 **M1** 110 – "66" **M1** "44"/110 × 100
	(b)	41	5	**M1** 7½ **M1** "7½" × 5 **M1** 3½ **M1** "37½" + "3½" Allow 7 hours 30 minutes but not 7.30
4	(a)	83714.40	3	**M1** 6 × 15855 **M1** 95130 × 0.88
	(b)	57078	3	**M1** 15855 × 60/100 **M1** "9513" × 6
	(c)	47.8	3	**M1** 15855 – 8278 **M1** 7580/15855
	(d)	($)70000	3	**M1** 280 000 × 25 **M1**/100

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5	(a)	0, 4000,8000,12000 8000,8800,9600,10400	4	**B2** correct row or **B1** any two correct in row **B2** correct row or **B1** any two correct in row
	(b)	graph of two straight lines	4	**M1** line thro (0,0) **M1** thro (6,12000) **M1** line thro (0,8000) **M1** thro (6,10400)
	(c)	6	2	**M1**√ evidence of using graph at intersection
	(d)	12000	2	**M1** evidence of using graph or 8000 + 2 × 2000 oe
6	(a)	1329.06	7	**M1** 2099 × 66% **A1** 1385.34 **M1** 208 **M1** "208" × 13.05 **A1** 2714.40 **M1**√ 2714.40 – 1385.34
	(b)	93726	5	**M1** 80000 × 1.0542 **M1** × 1.0542 **M1** × 1.0542 **A1** 93725.77(121...) **B1**√
7	(a)	42 cao and www	1	Do not allow any mention of 10
	(b)	42 www	2	**M1** mention of 28th size
	(c)	bar chart	4	**B2** all heights correct **(B1** 3 or 4 heights correct) **B1** equal widths **B1** scales correct
	(d)	1168.75	3	**M1** 55 **M1** 55 × 21.25
	(e)	262.97	2	**M1** "1168.75" × 0.225

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Section B

8	(a)	240		2	**M1** 400 × 60/100 oe
	(b)	106		2	**M1** 424/400 or 424/4
	(c)	432		2	**M1** 108 × 400/100
	(d)	(i)	448	3	**M1** 35% cao **M1** 156.80/"0.35"
		(ii)	12	3	**M1** "448" – 400 **M1** "48"/400
9	(a)	Jan 11 cao and www		6	**B1** correct date shift column **M1** products **M1** Σ products **B1** 20000 **M1** "Σ"/"20000"
	(b)	18119.60		6	**M1** using Jan 3 + Jan 11 only **DM1** "11000" × 12/100 **A1** 1320 **M1** 20000 – "1320" **M1** "18680" × 0.97
10	(a)	$14507		4	4134, 3964, 6409 **B2** all 3 correct (**B1** one correct) **M1** adding all 3 products
	(b)	$4375.43		4	**M1** 4134 × 1.08 **A1** 4464.72 **M1** "4464.72" × 0.98
	(c)	(i)	700	2	**M1** (4000 – 150)/5.5
		(ii)	3.75	2	**M1** 150/4000
11	(a)	51.58 cao		2	**M1** 130/2.5205
	(b)	50.81 cao		2	**M1** 130/2.5583
	(c)	51.62		4	**M1** Σ **M1** Σ/7 **M1** 130/"2.518629"
	(d)	29.26		4	**M1** 7 × 130 = 910 **M1** 350 × 2.5164 **M1** subtraction