

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.

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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 $\frac{5}{8} \times 6133$ 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) $\frac{27}{40}$ cao 40	3	B1 67.5/100 oe B1 675/1000 oe
	(b) 1167 cao	3	M1 $\frac{24}{100} \times 4862$ 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 $120 \times 45/100$ M1 $120 - 54$ M1 $110 - "66"$ M1 $"44"/110 \times 100$
	(b) 41	5	M1 $7\frac{1}{2}$ M1 $"7\frac{1}{2}" \times 5$ M1 $3\frac{1}{2}$ M1 $"37\frac{1}{2}" + "3\frac{1}{2}"$ 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 $15855 \times 60/100$ M1 $"9513" \times 6$
	(c) 47.8	3	M1 $15855 - 8278$ M1 $7580/15855$
	(d) (\$)70000	3	M1 $280\ 000 \times 25$ 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 $8000 + 2 \times 2000$ oe
6	(a) 1329.06	7	M1 $2099 \times 66\%$ A1 1385.34 M1 208 M1 "208" $\times 13.05$ A1 2714.40 M1 √ $2714.40 - 1385.34$
	(b) 93726	5	M1 80000×1.0542 M1 $\times 1.0542$ M1 $\times 1.0542$ 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 28 th 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" $\times 0.225$

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Section B

8	(a) 240	2	M1 $400 \times 60/100$ oe
	(b) 106	2	M1 $424/400$ or $424/4$
	(c) 432	2	M1 $108 \times 400/100$
	(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" $\times 12/100$ A1 1320 M1 20000 – "1320" M1 "18680" $\times 0.97$
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" $\times 0.98$
	(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 $\Sigma/7$ M1 $130/"2.518629"$
	(d) 29.26	4	M1 $7 \times 130 = 910$ M1 350×2.5164 M1 subtraction