

**MARK SCHEME for the October/November 2009 question paper
for the guidance of teachers**

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

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

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Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE O LEVEL – October/November 2009	7101	02

1	(a) $6\frac{1}{2}$ or 6.5	3	M1 $1\frac{1}{2} \times 2\frac{1}{4}$ A1 $3\frac{3}{8}$ or 3.375
	(b) \$9.80	3	M1 $17\frac{1}{2} / 100$ M1 $\times 56$
	(c) 1.26	3	M1 A1 1.259....
2	(a) 13/200	3	M1 65/1000 M1 cancelling down
	(b) 3 lbs 2oz	3	M1 $\div 16$ A1 3lbs A1 2ozs
	(c) 6	3	M1 $\div 4.54$ A1 5.50(660793...)
3	(a) \$2700	3	M1 67.50 M1 $\times 40$
	(b) 2000	3	M1 50 M1 40×50
	(c) 18375	5	M1 10×60 M1 30×67.50 M1 Σ M1 $\times 7$
4	(a) bar chart	4	B1 heights correct B1 scales correct B1 equal widths
	(b) 8	2	M1 identifying 22 nd term
	(c) 330	4	B1 3 products correct B1 3 more correct M1 adding 6 products
	(d) 7.67(4418605...)	3	B1 43 M1 their $330 \div 43$
5	(a) 8.22(60869)	6	M1 $566480 + 700000$ M1 $1380000 - 1266480$ M1 "113520" / 1380000 M1 $\times 100$
	(b) 4368	4	M1 2000×5.6 M1 $61/100 \times "11200"$ M1 "11200" – "6832"
	(c) \$1000	2	M1 $(6.10 - 5.60) \times 2000$
6	(a) (i) \$138672	3	M1 107/100 M1 129600×1.07
	(ii) 115	3	M1 149040 / 129600 M1 $\times 100$
	(b) 1030	4	M1 16800/ 84 M1 $\times 100$ M1 $\times 5.15$ (order may vary)

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7	(a) 52½	6	B1 3 × 10 B1 2 × 5 B1 9½ B1 3 M1 $\sum xf$
	(b) 723	2	M1 adding
	(c) (i) £7.23	2	M1 “723” × 10
	(ii) 20%	2	M1 10/50 or 7.23/361.5

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Section B

8	(a) Mar 20	6	M1 8000×2 etc M1 April 9 = 40 M1 Σ B1 30000 M1 "600000" / 30000
	(b) \$38400	3√	M1 "30000" \times 0.28 M1 30000 + 8400
	(c) 1.92	3√	M1 "38400" / 20 M1 "1920" / 1000
9	(a) \$6371.94	6	M1 1.07 M1 5000×1.07 A1 5350 M1 "5350" \times 1.06 M1 \times 1.06 twice more
	(b) 2764.80	6	M1 12×4 A1 48 M1 $50 \times$ "48" M1 "2400" \times $3.8 \times 4 / 100$ M1 + 2400
10	(a) \$63.60	2	M1 6360 / 1000
	(b) \$22752	4	M1 "790" \times 30 M1 $23700 \times 4/100$ M1 23700 – 948
	(c) (i) 29904	2	M1 15700/0.525
	(ii) 148.56	4	M1 "29904" \times 0.54 A1 16148.16 M1 "16148.16" – 15999.60
11	(a) (i) £37500	3	M1 6.25 M1 $6000 \times$ "6.25"
	(ii) £45614.25	4	M1 6000×10.67 A1 64020 M1 "64020" \times 0.7125
	(b) 9.49 euros	5	M1 6.15×6000 M1 "36900" \times 1.1 M1 "40590" \div 0.7125 M1 "56968.42" / 6000