

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

<b>Page 3</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>GCE O LEVEL – October/November 2009</b>	<b>7101</b>	<b>02</b>

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

<b>Page 4</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>GCE O LEVEL – October/November 2009</b>	<b>7101</b>	<b>02</b>

**Section B**

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