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Cambridge Ordinary Level

COMMERCIAL STUDIES

Paper 2 Arithmetic

Maximum Mark: 100

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MARK SCHEME

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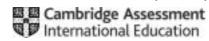
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Section A

Question	Answer	Marks	Guidance
1(a)	929.5	2	M1 650 × 143 / 100
1(b)	-36	2	M1 42 seen
1(c)	2 44 59	3	M2 $\frac{162}{59}$ or M1 2½ or $\frac{9}{4}$ M1 $\frac{59}{72}$

Question	Answer	Marks	Guidance
2(a)	985.8(0)	7	M1 0.2 / 100 M1 × 285 000 (= 570) M1 14 / 1000 M1 × 35 000 (= 490) M1 '570' + '490' (= 1060) M1 '1060' × 0.93
2(b)	275	3	M1 200 235 260 275 280 290 310 M1 (7 + 1) / 2 th value

Question	Answer	Marks	Guidance
3	A by 8.48	9	M1 800×0.78 M1 $624' \times 0.93$ A1 580.32 M1 800×0.8 M1 $640' \times 0.92$ A1 $588.8(0)$ M1 $588.80' - 580.32'$ A1ft for wholesaler A1 8.48

Question	Answer	Marks	Guidance
4	14374.5(0)	4	M1 21 000 × 0.8 (= 16 800) M1 '16 800' × 0.925 (= 15 540) M1 '15 540' × 0.925

Question	Answer	Marks	Guidance
5(a)	70	4	M1 8 + 5 + 2 (= 15) M1 210 / '15' (= 14) M1 5 × '14'
5(b)	5	6	B1 7.5 oe seen M1 6 × '7.5' (= 45) B1 2.25 oe seen M1 '2.25' ÷ '45' M1 × 100
5(c)	41.85	3	M1 12.4 × 1½ (= 18.6) M1 '18.6' × '2.25'
5(d)	880	3	M1 920 ÷ 184 M1 × 176 or M1 176 / 184 M1 × 920

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Question	Answer	Marks	Guidance
6(a)	correct bar chart	5	M3 5 correct heights –1 eeo M1 bars equal width M1 correct labels in correct place
6(b)	20	3	B1 30 000 M1 (6000 / '30 000') × 100

Question	Answer	Marks	Guidance
7(a)	18:20	4	M1 16:10 + 8:10 A1 24:20 or 00:20 M1 24:20 – 6(:00)
7(b)	3836	2	M1 2800 × 1.37
7(c)	922.5(0)	3	M1 1260 ÷ 1.344 (= 937.5) M1 '937.5' × 0.984

Question	Answer	Marks	Guidance
8(a)	15	5	M1 8200 × 0.14 (= 1148) M1 '1148' – 975.80 (= 172.20) M1 '172.20' ÷ '1148' M1 × 100
8(b)	3690	3	M1 8200 ÷ 100 M1 × 45
8(c)	3.3(0)	5	M1 8200 × 1.25 (= 10 250) M1 '10 250' × 118.8 / 100 A1 12 177) M1 '12 177' ÷ 8(b)

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Section B

Question	Answer	Marks	Guidan	ce
9(a)	10h 46m	5	M1 861 ÷ 80 (= 10.7625) M1 '10.7625' – 10 M1 0.7625 × B1 correct rounding to nearest	
9(b)	17	7	M1 342 × 100 (= 34 200) M1 173.25 × 8 (= 1386)	
			M1 41 400 – '1386' (= 40 014) M1 '40 014' ÷ 342 A1 117 M1 '117' – 100	M1 41 400 – 34 200 M1 7200 – 1386 A1 5814 M1 '5814' ÷ 342

Question	Answer	Marks	Guidance
10(a)(i)	40	1	
10(a)(ii)	20	1	
10(a)(iii)	4	1	
10(a)(iv)	20	1	
10(b)	20160	8	M1 1575 × 19 (- 29 925) M1 '29 925' - 8200 (= 21 725) M1 '21 725' - 11 400 (= 10 325) M1 - 5000 (= 5325) M1 '5325' × 0.8 (= 4260) M1 5000 × 0.9 (= 4500) M1 11 400 + '4500' + '4260'

Question	Answer	Marks	Guidance
11(a)	200 000	4	M1 68 000 – 31 500 (= 36 500) M1 12 775 ÷ '36 500' (= 0.35) M1 70 000 ÷ '0.35'
11(b)	14 600	5	M1 36 500 - 12 775 (= 23 725) M1 8 + 5 (= 13) M1 23 725 ÷ 13 (= 1825) M1 '1825' × 8
11(c)	340 000	3	M1 27 200 ÷ 8 M1 × 100

Question	Answer	Marks	Guidance
12(a)	20 746.15	7	M1 22 500 × 105 (= 2 362 500) M1 90 × 18 700 M1 '2 362 500' + '1 683 000' (= 4 045 500) M1 105 + 90 M1 '4 045 500' ÷ '195' A1 20 746.153(85) B1 correct rounding to nearest cent
12(b)(i)	Red	1	
12(b)(ii)	50	4	M1 Σ f (= 2520) M1 350 \div '2520' M1 \times 360

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