Cambridge
O Level

Cambridge Assessment International Education
Cambridge Ordinary Level

COMMERCIAL STUDIES **7101/22**

Paper 2 Arithmetic **October/November 2017**

MARK SCHEME

Maximum Mark: 100

Published

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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)	$2\frac{44}{59}$	**3**	**M2** $\frac{162}{59}$ or **M1** 2¼ 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' × 0.93 **A1** 580.32 **M1** 800 × 0.8 **M1** '640' × 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

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)**

Section B

Question	Answer	Marks	Guidance	
9(a)	10h 46m	**5**	**M1** 861 ÷ 80 (= 10.7625) **M1** '10.7625' – 10 **M1** 0.7625 × 60 **A1** 45.75 **B1** correct rounding to nearest minute	
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** Σf (= 2520) **M1** 350 ÷ '2520' **M1** × 360