

Modular Practice Paper 2F: Mark scheme

Key

- A Accuracy mark when following on from a correct method. Method does not necessarily need to be seen and can be implied
- B Independent of method
- M Correct method
- Q Quality of written communication
- oe or equivalent
- ft follow through, e.g. if a careless mistake is made, a mark is lost for this part of a question but subsequent marks can be awarded if the student works correctly from here

Question	Answer	Marks	Additional guidance	Grade/AO/FS
1	1 and 28, 2 and 14, 4 and 7	B3	B1 for each correct pair	G
2a	30	B1		G
2b	5×3.12 15.60	M1 A1		G FS
2c	4.40	Q1	i do not award for 4.4	G FS
3a	550	B1		G
3b	547.8	B1		F
4a	$1 + 4 + 7 + 10 + 13$ 35 $1 + 4 + 7 + 10 + 13 + 16$ 51	B1 B1 B1 B1		G
4b	the gap increases by 3 each time	B1	oe	F
5a	25.3	B1		G
5b	4.2	B1		G
5c	25	B1		G
5d	sight of 1944 sight of 9720 11 664	B1 B1 B1		F
6a	$7 \times 25 + 30$ 205	M1 A1		G FS
6b	$(330 - 30) \div 25$ 12	M1 A1	oe ... continuing from their 205 for 7 days	F FS
7	50p and 20p $\pounds 3 \div$ their 50 $\pounds 1.60 \div$ their 20 Sally	B1 B1 B1 B1	6 if correct 8 if correct must have 6 and 8 (or 5 and 6)	F AO3
8	$y = 9$ $7z = 42$	B1 B2	sight of $z = 6$ scores B1	F 1 E 2
9a	$300 - (84 + 109)$ 107	M1 A1		F
9b	$330 \div 3 (= 110)$ their $110 - 84$ 26	M1 M1 A1		E AO2
10	line from each box to correct answer	B4	B1 for each	E 2 D 2

11	$(90/120) \times 100$ or $(56/80) \times 100$ 75% and 70% test 1 alternatively: $90 \div 6$ or $56 \div 4$ 15 and 14 test 1	M1 A1 A1 M1 M1 A1	oe spotting a common factor of 20 for 120 and 80	E AO2
12a	$8 + 13$ 21	M1 A1		E
12b	1200 (metres)	B1		E
13	$130 \times 7 - 600$ $130 \times 7.20 - (600 + (4/100) \times 600)$ 310 and 312 better off (by £2) correct conclusion from their working, clearly seen	M1 M1 M1 A1 Q1	$130 \times 20p$ $(4/100) \times 600$ £26 and £24 must have gained M2 iii	D AO2 FS
14	$3n - 4 = 23$ $(n =) 9$	M1 A1		D AO2
15a	$(8000 \div 2000) + 6$ 10	M1 A1		D FS
15b	$11 = (8000 \div n) + 6$ 1600	M1 A1	oe	C AO2 FS
16	any two of 4000, 200 and 0.2 seen $4000/40$ or $20/0.2$ or $20\ 000/200$ 100	M1 M1 A1		C
17	$(1500 \times 12)/60 \times 6 (= \text{£}1800)$ their $1800 + (1500 \times 12 \times 0.05) +$ $260 (= \text{£}2960)$ $1500 \times 12 \times 40p (= \text{£}7200)$ their $7200 -$ their 2960 4240 ft their working if all steps clearly shown	M1 M1 M1 M1 A1 Q1	iii	C AO3 FS
	Total	66		