Section A

1	(a)	41	W1
	(b)	75	W1
	(c)	-20 *or* $\div 5$	W1 *or* √, 'square root'
	(d)	80	W1
			4

2	5, 35	17	W4 **W4** all correctly placed, **-1** errors/omissions
	10, 30	4, 8, 38	**W2** if both columns *or* rows correct
			4

3	(a)	23, 27, 31, 35, 39 *or* reversed	W1
	(b)	$+4$ *or* -4 if consistent	W1 acc equiv; need direction and quantity
			acc description for *their* mathematical pattern
			2

4	(a)	16	W1
	(b)	15 to 18	W1
	(c)	5	W1
			3

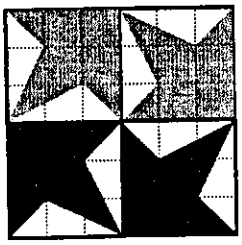
5	(a)	131	W1
	(b)	25	W1
	(c)	208	W1
	(d)	13	W1
	(e)	26	W1
	(f)	39	W1 ✓ or ft their (d) × 3 *or* their (d) + their (e)
			6

6	(a)	2	W1
	(b)	3700	W1
	(c)	3½ to 4	W1
	(d)	8 to 10	W1
			4

7	(a)	grams, g, gm	W1
	(b)	30 to 50	W1 110 to 135 if qualified by 'above ground' etc
			2

8 (a) 1 4 0

1 2

(b) 

W2 **W2** all correct (acc blank or '✗' for 0)
W1 any 3 correct
W2 **M1** either quarter correct orientation

4

9 (a) points correctly plotted ± 1 mm

W2 ignore joining
W1 4 correctly plotted
or all shifted 1 cm across, only 1 error plotting

(b) 15 (%)

W3 **W2** 30/200
or **W1** 200

(c) comparative statistical comment

W1 compare distribution, sample, spread etc

6

10 (a) 554·80

W3 **M1** any complete correct method which would lead to correct answer (if no arithmetic errors)
W1 figs seen :
1168 / 438 / 228 / 152 / 584 / 292 / 532
or grid method: 8 rectangles correct
A1 554·80

or **W2** 554·8

(b) 3 (hrs) 30

W3 **M1** 14 ÷ 4 seen, or equivalent (inc 4, 8, 12, 16)
A1 3·5

or **W3** 3 (h) 30 (m)

or **W2** 3·5

6

11 (a) (0) ·08

W1

(b) 500

W2 **W1** 125 seen

(c) 7/10, 0·7

W2 **M1** 8/10 *or* 0·8 – 0·1 seen

5

12 (a) 0·3

W2 accept fraction, percentage equivalents
W1 incorrect form **W0** ratio form

M1 0·7
or 0·3 seen in last column & answer incorrect

(b) 4

W2 **M1** 0·2 × 20 (*or* equivalent)

4

Section A total 50

Section B

13 (a) unlikely — W1 acc equivalents inc 'impossible'
evens — W1 acc equivalents inc 50/50
certain — W1

(b) no + correct reason — W3 **W3** quantified response, all 3 correct
W2 partly quantified, no errors
W1 not quantified
or quantified with errors, at least one correct
– 1 for 'yes', or 'no' omitted

6

14 (a) (Old) Thira — W1
(b) (9, 5) — W1
(c) volcano marked near middle of square — W1
(d)i) (Old) Thira (*and/or* airport) east — W2 **W1** each part
(ii) southeast — W1 acc equivalents inc 130° to 140°
(e) Akrotiri, Perissa — W1 both, only condone Old Thira
(f) 9 800 — W1

sc1 (a), (b), (c) all correctly reversed [Oia, (5, 9), (5½, 4½)]

8

15

A	*36*	**7**	*43*	W1
B	**8**	*1*	**9**	W1
AB	*2*	*1*	*3*	
O	*38*	**7**	**45**	W1
Total	**84**	**16**	*100*	W1 **ft** *their* columns for last W1

if 0 scored in total, **W2** 9, 45 both seen

4

16 (a) 242 to 246 — W1

(b)i) SG drawn 7 cm long — W1 throughout (b) (i): allow ± 0·2 for each
GW drawn 5 cm long — W1 if wrong scale used:
SW drawn 8 cm long — sc2 all 3 correct length
W1 sc1 any 2 correct length
lines must meet

ii) 96 to 100 — W1 **ft** *their* diagram (± 2°)

5

17 (a) Airways by 164

W5 Happy Hols
W1 7 days accomm adult or child, correct
or 2 plane tickets, correct
or **W2** 686 *or* 1280 seen
Airways
W1 attempt total 2 adults 2 children (1116)
W1 their 1280 – their 1116 (= 164) correct
A1 Airways, 164

(b)i) 1200

W2 **M1** 3600 *or* 240

(ii) 14·4 (0)

W2 **M1** 0·02 × 720 *or* equivalent

9

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18 (a) 375 (·60), 375·6, 376

W2 **M1** 240 × 1·565, implied by digits 3756
A1 375 (·60), 375·6, 376

(b) 4·49 to 45 (0)

W3 **M1** 28·17 ÷ 1·565
A1 (£) 18
A1 4·5 (0)

5

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19 (a) 4

W1 acc embedded solutions throughout

(b) 10

W1

(c) 5·5, 5½, $^{11}/_{2}$

W2 **M1** $4x = 17 + 5$ *or* 22 seen
A1 5·5

4

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20 (a) $12x$

W2 **M1** $3x + 4x + 5x$
A1 $12x$

(b) $6x^2$

W2 **M1** ½ × $4x$ × $3x$
A1 $6x^2$

sc2 (a), (b) fully reversed

4

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21 (a) 24, 375, 3, 1·5, 630

W2 **W1** any 3 correct

(b) 218 (·3)

W3 **M1** 393
or **M2** 1965 *or* 43(·6..), 43·7, 44
or 216·15 to 218·3

5

Section B total 50

Paper Total 100