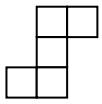
Section A

Question	Full marks				Part marks
1 (a)	49	**1**			cao
(b)	5	**1**			cao
(c)	64	**1**			cao
2 (a)	5, 9, 17, 33	**2**		**M1** **SC1**	For any two correct numbers f.t. their incorrect terms 6, 5, 10, 9
(b)	All terms are odd numbers	**1**			o.e. explanation
3 (a) (i)	RV FR FF FV VR VF VV	**2**			No extras, condone repeats
				M1	For any five correct, (ignore repeats and/or extras)
(a) (ii)	$\frac{5}{9}$ o.e.	**1**			f.t. their list **OR** their list not including the two given combinations e.g. $\frac{3}{7}$
(b)	No **and** 75 or 74 seen	**2**		**M1**	50 × 1·5 **or** 50 x 1.48 **or** 80 ÷ 50 **or** 80÷1.5(0) **or** 74 **or** 75 **or** 1.6 **or** 53(.33…)
4 (a)	11a	**1**			
(b)	11q – 4r	**2**			As final answer
				M1	11q or – 4r seen
(c)	21	**2**		**M1**	30 seen or 6 × 5 – 9
5	Rectangle Kite Parallelogram ✓ × ✓ ✓ × × × × × ✓ × ✓ ✓ ✓ ×	**2**		**W1**	For kite or parallelogram column correct or 3 rows correct. Blank cells are incorrect
6 (a) (i)	12	**1**			cao
(a) (ii)	9	**1**			cao
(b)	$\frac{7}{12}$ $\frac{2}{3}$ $\frac{3}{4}$	**2**		**M1**	For one correct equivalent fraction eg $\frac{8}{12}$ or $\frac{9}{12}$ Could be diagramatic

7	**(a)**	Correct translation	**1**			
	(b)	Reflection in the line $y = 1$	**2**		**M1**	Reflection or check diagram for correct mirror line drawn (min 3cm long)

Section B

8 (a)	14	**3**		**M1**	Attempt to add - either addition seen or implied by answer in range 199 - 221
				M1	their total ÷15 dependent on 1st M1
(b)	Mean is distorted by two large values	**1**			
9 (a)	B	**2**		**W1**	D or views labelled BC, BD, BD all given correct.
(b)		**2**			Accept any orientation
				M1	For extra square anywhere or reflection 
				SC1	Right angled triangle in this position with other squares correct. 
10 (a) (i)	204	**4**		**W2**	510
			or	**M1**	0·6 × 850 or attempt to work out 6 × 10% (of 850) or 50% (of 850) + 10% (of 850) o.e.
			and	**M1**	'their 510' ÷ 5 o.e
			and	**A1**	f.t. 2 × 'their 102'
					Alternative Method
				W2	340
			or	**M1**	850 ÷ 5 x 2 o.e.
			and	**M1**	'their 340' x 0.6
			and	**A1**	f.t. 'their 204'
(a) (ii)	36	**2**		**M1**	522 ÷ 1450 **or** $\frac{522}{1450}$ (x100) **or** figs 36
(b)	3000	**1**			
11 (a)	15	**1**			Accept embedded answers throughout
(b)	5	**1**			
(c)	7·5 or $7\frac{1}{2}$ or $\frac{15}{2}$ o.e.	**2**		**M1**	$2x = 8 + 7$ or better or correct reversed flow diagram

12 (a)	512	**2**		**M1**	8 × 8 × 8 seen or 64x8
	cm^3	**1**			must include a value
(b)	384	**3**		**M1**	8 × 8 or 64 seen
				M1	6 seen