Section B

9	(a) correct translation	W1	
	(b) correct rotation	W3	W2 for correct anti-clockwise rotation or errors between 2mm and 4mm in plotting(corners) W1 for wrong centre used(translation of correct answer) in both parts allow ±2mm
10	(a) (i) 60	W1	
	(ii)att. at Σt (=493)	M1	allow one error or omission
	÷ 9	M1	dep.
	54.7(...)	A1	
	54.8	A1	or correct rounding of their mean W4 for 54.8 W3 for 54.7(...) W2 for 55
	(b) best comment from;	W1	allow second test is harder
	(i) they have become worse/slower or		accept any correct comment
	(ii) lower spread/more consistent		ft their (a) if 0 - 90 assume comment refers to the second test unless stated
11	(a) 44	W1	
	63	W1	if W0 then SC1 for 3 7 11
	(b) 32	W1	
12	correct net (4 extra pieces)	W3	allow 2mm tolerance W2 for 2 correct pieces or fully correct with extra pieces W1 for 1 correct piece ignore tabs
13	(a) 21	W1	
	(b) $2x +7 -7 = 16 -7$	M1	or better, allow fully correct flowchart
	$x = 4.5$ or $^9/_2$ or $4^1/_2$	A1	isw after $^9/_2$ W2 4.5 or $^9/_2$ or $4^1/_2$
14	250×0.03	M1	allow alternative correct methods
	7.5	A1	
	g	W1	
15	(a) CE PS PD PE WS WD WE NS ND NE	W2	W1 for six correct(ignore extras)
	(b) not equally likely	W1	eg he does not like Electronics or anything that alters the probability

Section B: 25 marks

Total : 50 marks