Section B

8	(a)	32	2	M1: $x/4 = 8$ or $x/4 = 11 - 3$ or $x + 12 = 44$
	(b)	3·5 or 7/2	3	M1: 1 correct step, e.g. $2x - 7 = 0$ or $5x = 3x + 7$ M2: $2x = 7$ or $-2x = -7$. If M0, SC1: $2x = -7$ or $x = -3.5$. In both (a) and (b), allow M marks for embedded answers; can earn full marks if given as final answer, seen embedded in original equation
			5	
9	(a)	midpoints 5, 15, 25, etc; s.o.i. (freq. × 'their midpoints') seen, e.g. 5, 45, 175 or 1830 'their total' ÷ 50 36·6	M1 M1 M1 A1	at least 3 at least 3; allow for freq. × endpoints, etc (2080 implies M0, M1) f.t. only after attempt at using frequencies or W4 Allow A1 for 37 if M3 earned SC3: 37·1 or 36·1 or 31·6 or 41·6; or 37 with no evidence of M3
	(b) (i)	−6 (condone −0·1)	2	M1: 6 or 9 ÷ 1·5 or 9 ÷ 90 or 9 ÷ 1·3 or 3 ÷ 0·5 (o.e. seen from triangle on graph) or negative answer
	(ii)	tank is being filled (o.e.)	1	ignore extra comments
			7	
10	(a)	7:3; c.a.o.	2	M1: other equivalent ratios to 3500:1500
	(b)	930	2	M1: 1860 ÷ 6 or 310 or ½ or 3/6
	(c) (i)	1·5(0) i.s.w.	2	condone 1 h 30 min or 90 mins clearly stated M1: 90 ÷ 60 or 1:30 or 1h30 or 1·3(0)
	(ii)	50	2	M1: 175 ÷ ('their (c)(i)' + 2) seen
			8	
11	(a)	5	1	condone (0, 5)
	(b)	$y = 3x(+ c)$ for any c except 5 (o.e.)	1	e.g. $x = y/3$
	(c)	2 and 6 seen $2^2 + 6^2$ 6·3(2...)	M1 M1 1	allow f.t. for 'their $a^2 + b^2$' (using horizontal and vertical differences, e.g. seen on triangle), 40 implies M2 NB not W3
			5	
			25	

Paper Total = 50