2. (a)	$S_{dp} = 5240.8 - \frac{1029 \times 50.8}{10} [= 13.48]$	M1
	$r = \frac{'13.48'}{\sqrt{344.9 \times 0.576}}$	M1
	= 0.9563834526…. awrt **<u>0.956</u>**	A1
		(3)
(b)(i)	$w = 50 - p$	B1
(ii)	–1	B1
		(2)
(c)	–0.956	B1ft
		(1)
		[6]

	Notes
(a)	1st M1 correct expression for S_{dp}
	2nd M1 valid attempt at r with their S_{dp} not equal to 5240.8 and the correct denominator
	A1 awrt 0.956
(b)(i)	B1 allow equivalent rearrangements
(ii)	B1 – 1 cao
(c)	B1ft follow through –1 ×their(a) providing −1 < their (a) < 1

Question Number	**Scheme**	**Marks**