Question Number	Scheme	Marks
	If any part, especially (a) or (b), is missing send to review	
4(a)	0.72	B1 **(1)**
(b)	C (is most likely to be the 100 metre junior champion)	B1 **(1)**
(c) (i)	$S_{xx} = 3445.26 - \frac{164.4^2}{8} \left[= 66.84 \text{ or } \frac{1671}{25} \right]$	M1
	$r = \frac{60.85}{\sqrt{"66.84" \times 67.52}}$	M1
	$= 0.90578\ldots$ awrt **0.906**	A1 **(3)**
(ii)	The faster boys are in the the 100 metres, the faster they are in the 200 metres	B1 **(1)**
		Total 6

	Notes
(c) (i)	1st M1 for a correct expression, allow the use of $n = 10$, ie $S_{xx} = 3445.26 - \frac{164.4^2}{10} \left[= 742.524 \right]$ Condone one slip e.g. 3445.6 instead of 3445.26 etc 2nd M1 for an attempt at a correct formula for r using S_{yy} and S_{xy} and their S_{xx} Condone one slip e.g. 60.84 or 66.48 miscopied for 66.84 A1 for awrt 0.906 NB Use of $S_{xx} = 742.524$ gives $r = 0.272$ and can score M1M1A0 provided expressions are seen for S_{xx} and r
(ii)	**NB on epen this is an A1 mark but we are treating it as a B1 It does not depend on M1 in (c)(i)** B1 allow equivalent statements e.g. on average boys that are faster/slower in the 100 metres are also faster/slower in the 200 metres Comment must be: (1) a comparison of <u>time</u> e.g. faster, quicker, slower etc (not "higher") **and** (2) mention <u>100 metres</u> or <u>200 metres</u> (and imply the other)