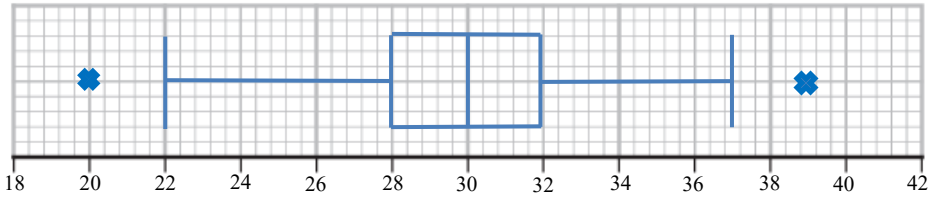
Question Number	Scheme	Marks
3(a)	29	B1
		(1)
(b)	Median = 30	B1
	IQR = 32 – 28	M1
	= 4	A1
		(3)
(c)	'32' + 1.5('4') = '38' and '28' – 1.5('4') = '22'	M1
		B1 B1ft A1
		(4)
(d)	***Westyou***: $[Q_2 - Q_1 = 3,\ Q_3 - Q_2 = 1 \text{ or } (Q_2 - Q_1) > (Q_3 - Q_2)] \Rightarrow$ -ve [skew]	B1B1ft
	Eastyou: $[Q_2 - Q_1 = 2,\ Q_3 - Q_2 = 2 \text{ or } (Q_2 - Q_1) = (Q_3 - Q_2)] \Rightarrow$ No skew	B1ft
		(3)

	Notes	Total 11
(a)	**B1**	Allow 28.9
(b)	**B1**	Cao (Condone no label, but incorrect label is B0) Must be seen in part b
	M1	For UQ – LQ (at least one correct)
	A1	Cao (Must be in part (b)) Allow 4 with no working shown, but do not allow 4 from incorrect working
(c)	**M1**	Sight of $"32"+1.5("4")$ or "38" or $"28"-1.5("4")$ or "22" ft their UQ and LQ. May be implied by a fully correct box plot with both outliers plotted
	B1	Box with 2 whiskers (Must be one either side of the box)
	B1ft	Lower whisker plotted at 22 (allow their 22 or the next biggest number if more than 1 outlier identified or allow 20 if no outlier identified), LQ plotted at their 28, Median plotted at their 30, UQ plotted at their 32 and Upper whisker plotted at 37 (allow their 38 or their next smallest value if more than 1 outlier identified or allow 39 if no outlier identified) **NB** We only ft their 28 and their 32 if stated/shown in part b
	A1	2 outliers plotted at 20 and 39 and no extras
		NB If no scale given then the maximum this may score is M1B1B0A0
(d)	**B1**	***Westyou*** negative [skew] Must be clear indication that it is associated with *Westyou* e.g W
	B1ft	***Eastyou*** no skew/zero skew oe Condone symmetrical/symmetric. Must be clear indication that it is associated with *Eastyou* e.g. E Do not allow even skew or normal/normally distributed etc ft their box plot
	B1ft	Justification for both of the given statements or use of the box plot in their explanation This mark is independent of the given statements ft their box plot Do not allow contradictory justifications
		NB SC if only one comment is made then assume it is about *Eastyou* and B0B1B0 is possible