Question Number		Scheme	Marks
2.	(a)	(Year 7 median =) 29 (Year 11 median =) 54	B1 B1 (2)
	(b)	(Lower quartile =) 22 (Upper quartile =) 42	B1 B1 (2)
	(c)	Year 7 / Year 11 $Q_3 - Q_2 > Q_2 - Q_1$ / $Q_3 - Q_2 < Q_2 - Q_1$ e.g. $13 > 7$ / e.g. $5 < 16$ Positive skew / Negative skew	M1 A1ft A1ft (3)
	(d)	skewed / not symmetrical oe **and** not continuous oe	B1dB1 (2)

	Notes	Total: 9
(a)	B1 cao B1 cao	
(b)	B1 cao B1 cao	
(c)	M1 for a comparison for either year using their values of Q_1, Q_2, and Q_3 e.g. may write $Q_3 - Q_2 > Q_2 - Q_1$ or allow qualitative comparisons e.g. "median is closer to the lower quartile (than the upper quartile)" but not "median is close to the lower quartile" as that is not a comparison condone slips in their calculations for this mark as long as the method is seen. Allow the comparison to be implied if both $Q_3 - Q_2$ and $Q_2 - Q_1$ calculations are seen. A1ft positive skew for Year 7 or ft their Q_1, Q_2, and Q_3 and following a correct comparison. If a calculation is seen it must be correct from their values from (a) and (b). Allow right skew. A1ft negative skew for Year 11 ft their Q_2 and following a correct comparison. If a calculation is seen it must be correct from their values from (a) and (b). Allow left skew.	
(d)	B1 for one valid reason (see below) dB1 dependent on the previous B mark. For two valid reasons (see below) Ignore reference to positive or negative, allow reference to not symmetrical instead of skewed and allow stating e.g. $Q_3 - Q_2 < Q_2 - Q_1$ provided it is correct for their values. Ignore irrelevant non-contradictory statements allow reference to discrete for not continuous (but not discrete uniform) and allow an explanation that a normal distribution requires continous data oe Do not allow a reason of mean $\neq$ median or $\neq$ mode unless the mean and/or mode is correctly found (mean (awrt 48.8) mode (63)) and median is 54 or 53 seen Do not allow "insufficient data points to make a model"	