

11+ Standardisation Report – October 2019

Each pupil's raw scores were standardised ($\mu=100$, $\sigma=15$). The values used, in 2019, are presented in the table below.

$n=5465$

2019 (2020 entry)	Mean (μ)	Standard Deviation (σ)
English	27.26551	8.152528
Maths	28.12113	12.58851

As in previous years a statistical test was used to assess whether age adjustment was necessary to take account of any apparent bias against younger candidates.

This year, the t -test was statistically significant for both English and Maths and the corresponding age adjustment factors were calculated.

2019 (2020 entry)	Age adjustment
English	0.0134943
Maths	0.0059528

In each case the calculation proceeds as follows:

$$\text{Standardised score} = (((\text{raw score} - \mu) \div \sigma) \times 15) + 100$$

$$\text{Total score} = 1.5 \times$$

$$[(\text{standardised Mathematics} + \text{“days younger”} \times \text{Maths age adjustment}) + (\text{standardised English} + \text{“days younger”} \times \text{English age adjustment})]$$

where “days younger” is calculated as d-o-b *minus* 01/09/2008.

Thus a candidate, born on 01/09/2008, with average marks on each paper will obtain a total of 300, comprising the results in the two papers weighted 1:1.