

11+ Standardisation Report – October 2021

Each pupil's raw scores were standardised ($\mu=100$, $\sigma=15$). The values used, in 2021, are presented in the table below.

$n=4815$

2021 (2022 entry)	Mean (μ)	Standard Deviation (σ)
English	31.42076843	9.057856815
Maths	31.67663551	13.6856628

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 test was statistically significant for English; but not for Maths and the corresponding age adjustment factors were calculated.

2021 (2022 entry)	Age adjustment
English	0.0119657
Maths	zero

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* 01/09/2010.

Thus a candidate, born on 01/09/2010, with average marks on each paper will obtain a total of 300, comprising the results in the two papers weighted 1:1.