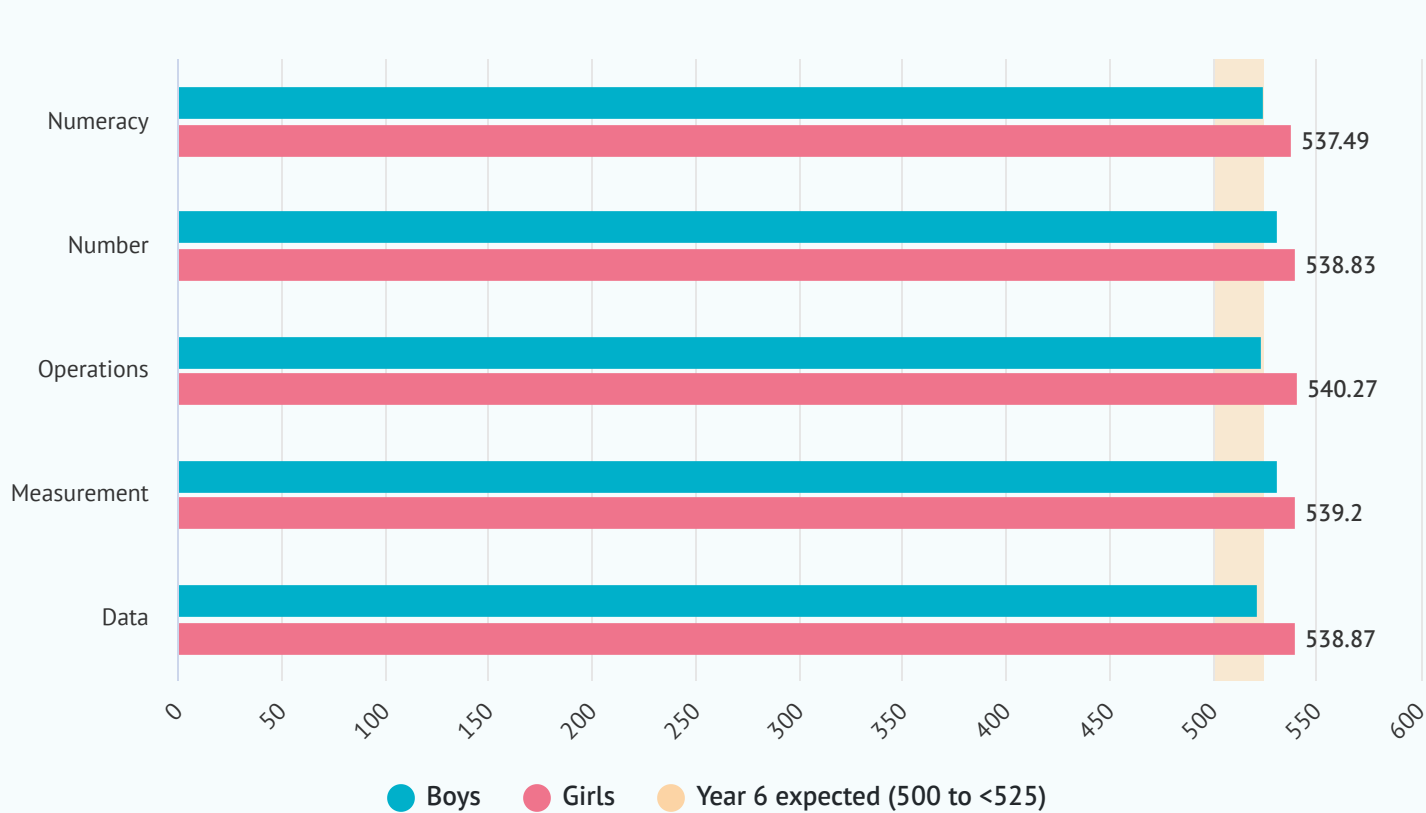# Year 6 numeracy performance by gender

A roughly equal number of the scores of year six girls and boys was analysed in the PILNA 2021 numeracy assessment: 9,875 year six girls' scores and 9,688 year six boys' scores.

Figure RNF6.3 shows the average numeracy performance of year six students by gender.

Figure RNF6.3

Year 6 Numeracy mean performance in domain & strands by gender

Category	Boys	Girls
Numeracy	524.06	537.49
Number	530.68	538.83
Operations	522.28	540.27
Measurement	530.06	539.2
Data	520.5	538.87

Mean performance of Year 6 students in number, operations, measurement & geometry, data, by gender

Year six girls scored higher than year six boys in all numeracy areas, including the overall numeracy score.
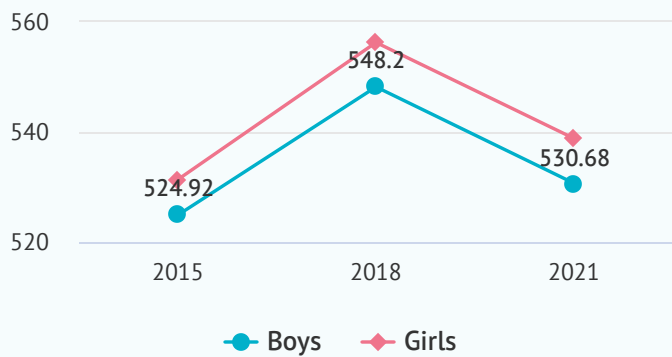
This was consistent with the trend across the previous two PILNA cycles, 2015 and 2018, when year six girls, on average, scored higher than year six boys in all numeracy areas, including the overall numeracy score (see Figure RNF6.4).

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Further statistical testing needs to be performed to understand if these differences in scores are significant or the result of chance or outliers.

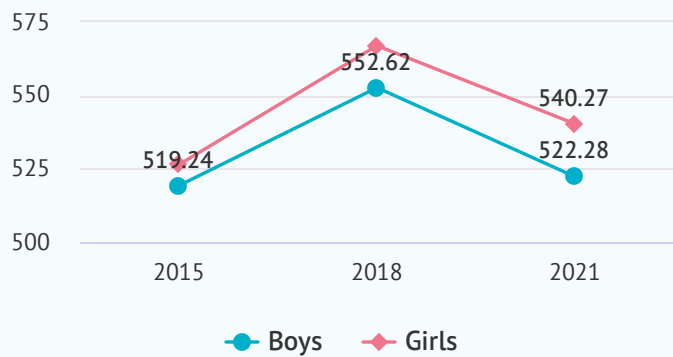| Figure RNF6.4 |
|---|
| **Year 6 Numeracy mean performance by gender over time** |

Year	Boys	Girls
2015	520.23	526.67
2018	549.86	560.87
2021	524.06	537.49

Mean performance of Year 6 students in numeracy, by gender, over time 2015, 2018, 2021

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Figure RNF6.5

Year 6 Number mean performance by gender over time

Year	Boys	Girls
2015	524.92	531.37
2018	548.2	556.28
2021	530.68	538.83

Mean performance of Year 6 students in number strand, by gender, over time 2015, 2018, 2021

Figure RNF6.6

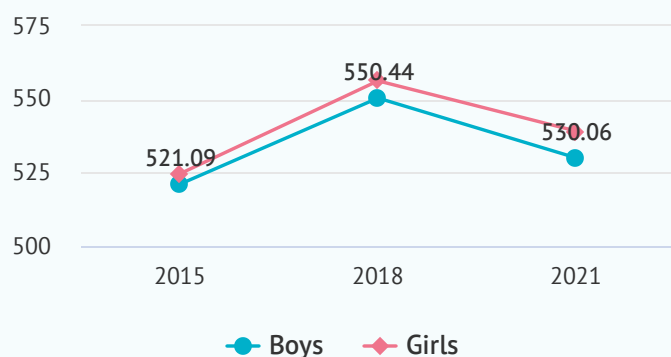### Year 6 Operations mean performance by gender over time

Year	Boys	Girls
2015	519.24	526.39
2018	552.62	566.93
2021	522.28	540.27

Mean performance of Year 6 students in operations strand, by gender, over time 2015, 2018, 2021

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Figure RNF6.7

Year 6 Measurement & Geometry mean performance by gender over time

Year	Boys	Girls
2015	521.09	524.64
2018	550.44	556.3
2021	530.06	539.2

Mean performance of Year 6 students in measurement & geometry strand, by gender, over time 2015, 2018, 2021

Figure RNF6.8

Year 6 Data & Chance mean performance by gender over time
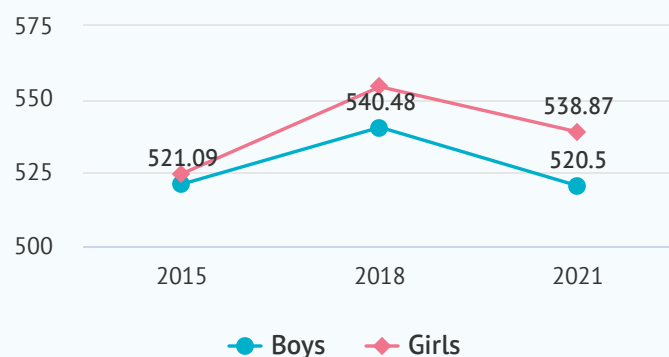
Year	Boys	Girls
2015	521.09	524.64
2018	540.48	554.29
2021	520.5	538.87

Mean performance of Year 6 students in data & chance strand, by gender, over time 2015, 2018, 2021