

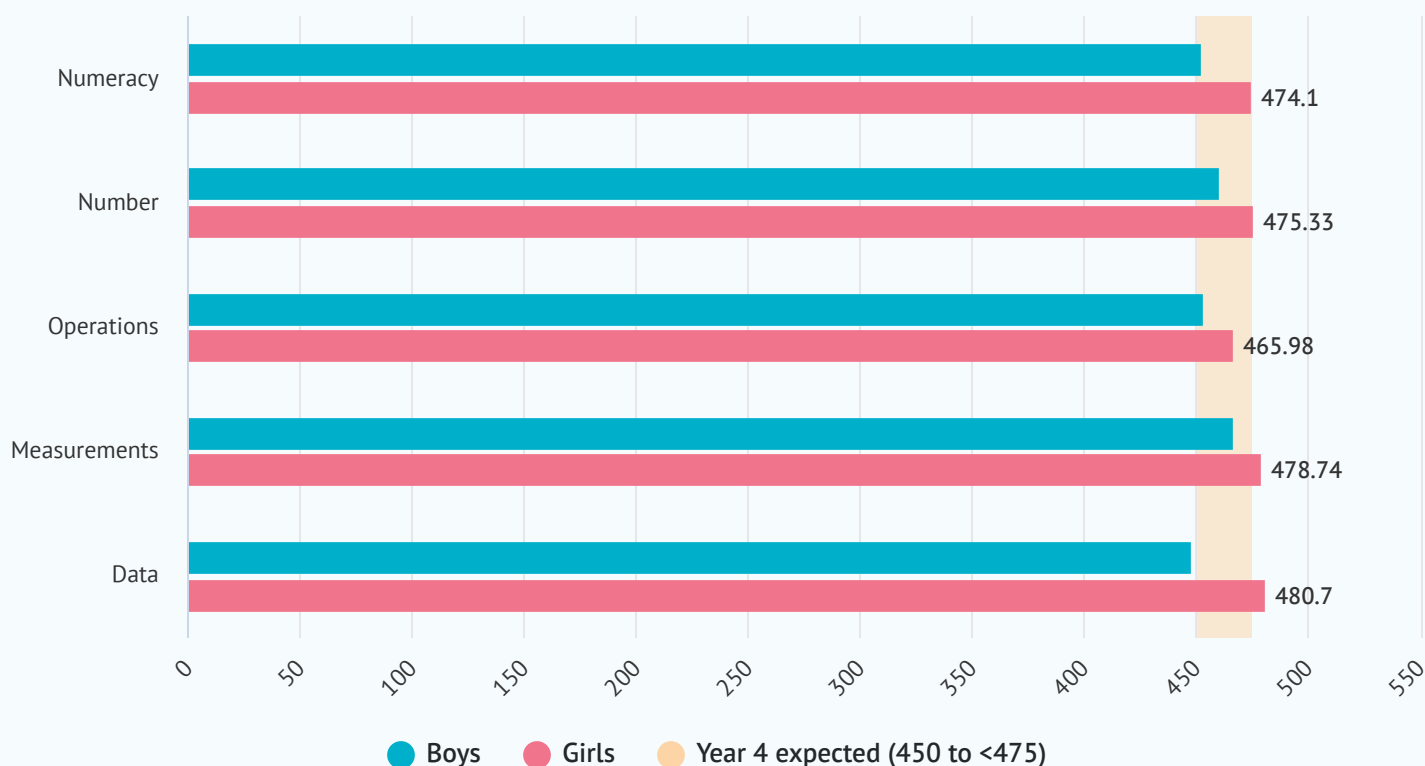
2021 Cook Islands Report / Performance / Numeracy / Year 4 numeracy / Performance by gender

Year 4 numeracy performance by gender

A roughly equal number of year four girls and boys in Cook Islands had their performance analysed in the PILNA 2021 numeracy assessment, with the distribution being 46% girls and 54% boys.

Figure CNF4.5

Year 4 numeracy performance in domain and strands by gender



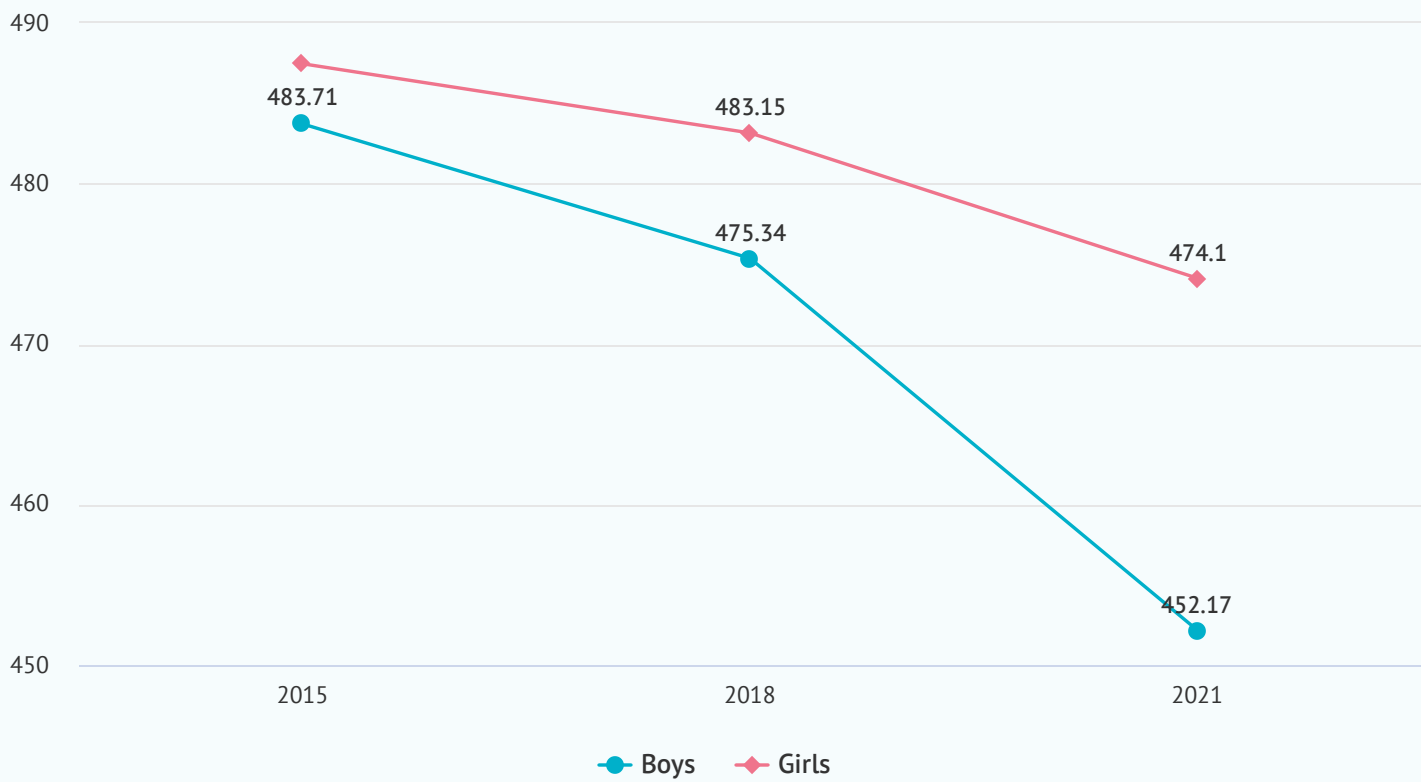
Category	Boys	Girls
Numeracy	452.17	474.1
Number	459.64	475.33
Operations	453.08	465.98
Measurements	466.06	478.74
Data	447.45	480.7

Average numeracy performance for year 4 students by gender, Cook Is, PILNA 2021

Figure CNF4.5 shows the average numeracy performance of year four students in Cook Islands by gender. Year four girls scored higher than year four boys in all numeracy areas, including the overall numeracy score. This was consistent with the trend across the previous two PILNA cycles. In 2015 and 2018, as seen in Figure CNF4.5.1, year four girls, on average, scored higher than year four boys in all numeracy areas, including the overall numeracy score. Further statistical testing needs to be performed to understand if these differences in scores are significant or the result of chance or outliers.

Figure CNF4.5.1

Year 4 Numeracy mean performance by gender over time

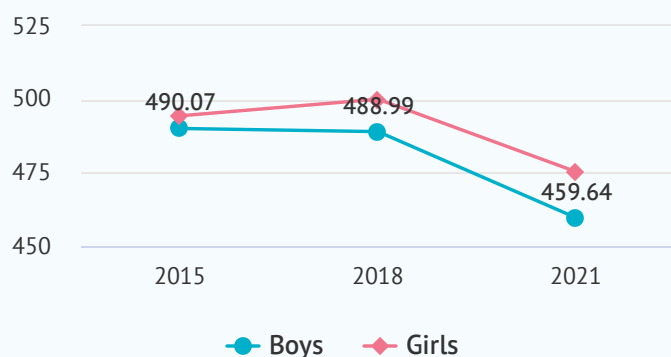


Year	Boys	Girls
2015	483.71	487.46
2018	475.34	483.15
2021	452.17	474.1

Mean performance of year 4 students in numeracy by gender, over time, Cook Is, PILNA 2015, 2018 and 2021

Figure CNF4.5.2

Year 4 Number mean performance by gender over time

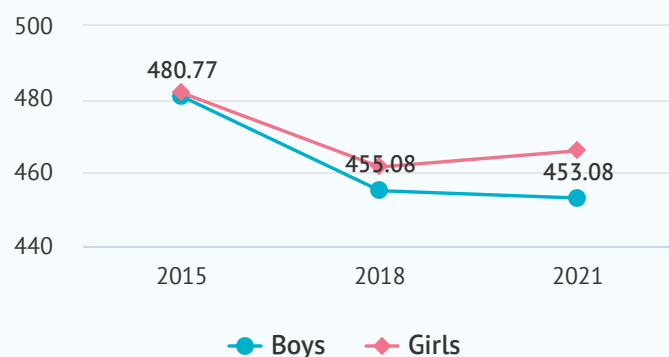


Year	Boys	Girls
2015	490.07	494.38
2018	488.99	500.05
2021	459.64	475.33

Mean performance of year 4 students in number strand, by gender, over time, Cook Is, PILNA, 2015, 2018, 2021

Figure CNF4.5.3

Year 4 Operations mean performance by gender over time

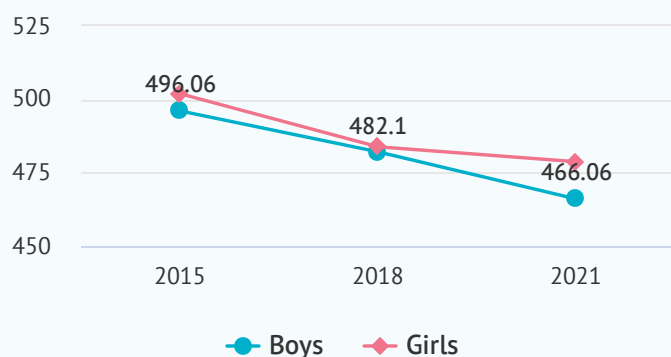


Year	Boys	Girls
2015	480.77	481.75
2018	455.08	461.56
2021	453.08	465.98

Mean performance of year 4 students in operations strand, by gender, over time, Cook Is, PILNA, 2015, 2018, 2021

Figure CNF4.5.4

Year 4 Measurement & Geometry mean performance by gender over time

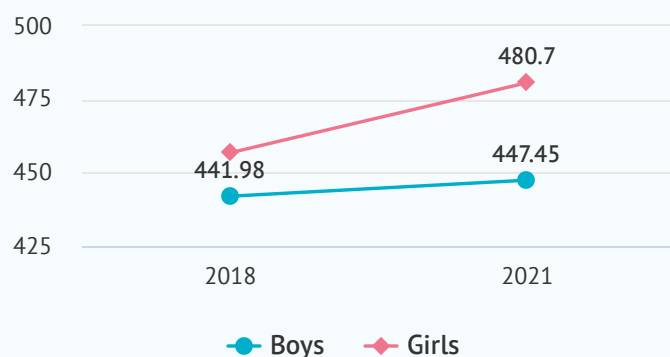


Year	Boys	Girls
2015	496.06	501.92
2018	482.1	483.82
2021	466.06	478.74

Mean performance of year 4 students in measurement & geometry strand, by gender, over time, Cook Is, PILNA, 2015, 2018, 2021

Figure CNF4.5.5

Year 4 Data mean performance by gender over time



Year	Boys	Girls
2018	441.98	456.81
2021	447.45	480.7

Mean performance of year 4 students in data & chance strand, by gender, over time, Cook Is, PILNA, 2018, 2021