

Grade 5 numeracy performance by gender

A roughly equal number of grade five girls and boys in Federated States of Micronesia had their performance analysed in the PILNA 2021 numeracy assessment: 49% grade five girls and 51% grade five boys.

Figure CNF5.4

Grade 5 numeracy performance in domain and strands by gender



Category	Grade 5 MEAN BOYS	Grade 5 MEAN GIRLS
Numeracy	455.29	459.98
Number	455.86	452.68
Operations	466.57	474.93
Measurement	453.76	458.34
Data	448.11	456.63

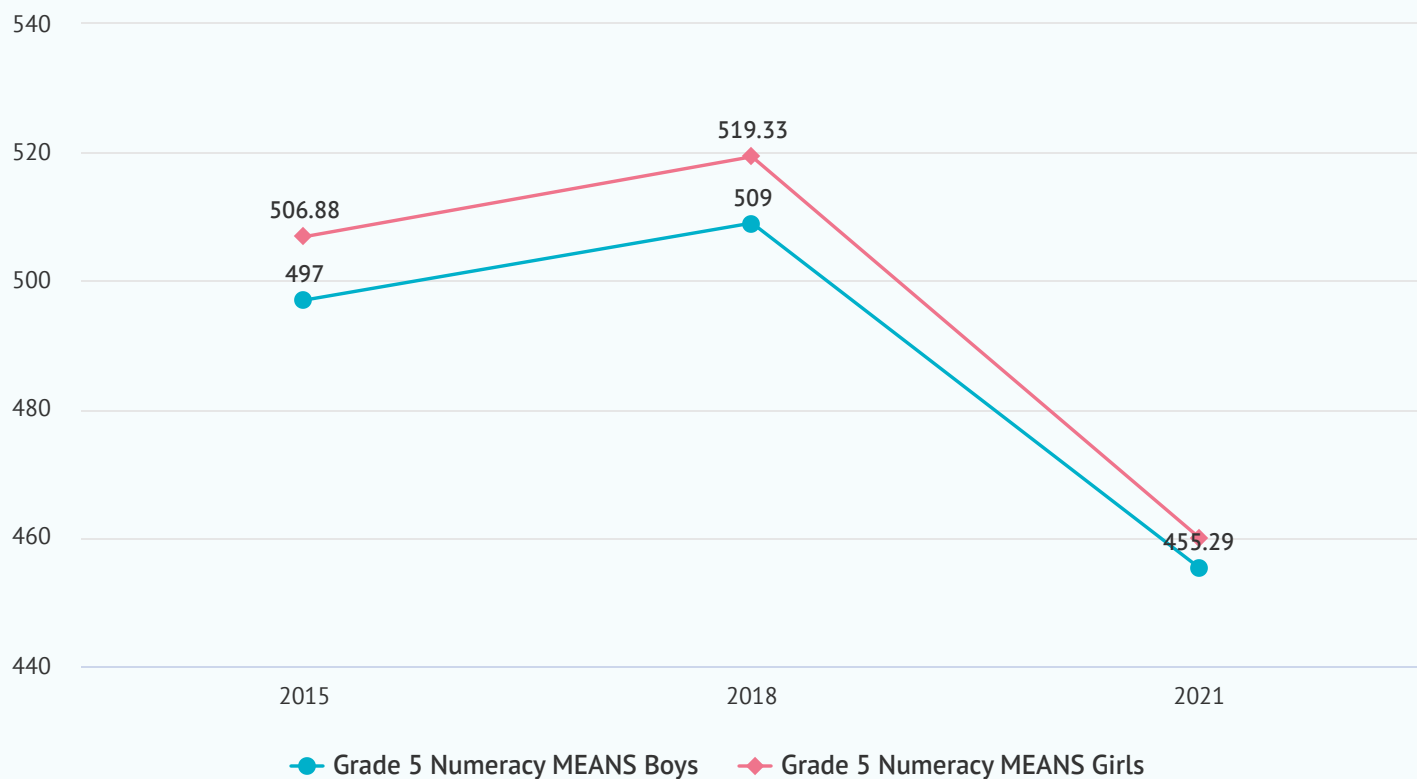
Mean performance of Grade 5 students in domain and strands by gender, FSM, PILNA 2021

Figure CNF5.4 shows the average numeracy performance of grade five students in Federated States of Micronesia by gender. On average, grade five girls scored similarly to grade five boys in the overall numeracy score. This was different from the previous two PILNA cycles; in 2015 and 2018, grade five girls scored slightly higher than grade five boys in the average overall numeracy score as shown in Figure CNF5.4.1. Also, in 2021, grade five girls scored similarly to grade five boys in the Number and Measurement & Geometry numeracy strands but slightly higher than boys in the 'Operations' and 'Data' strands.

This is dissimilar to previous PILNA cycles, where grade five girls tended to score slightly higher than grade five boys in all the numeracy strands.

Figure CNF5.4.1

Grade 5 Numeracy mean performance by gender over time

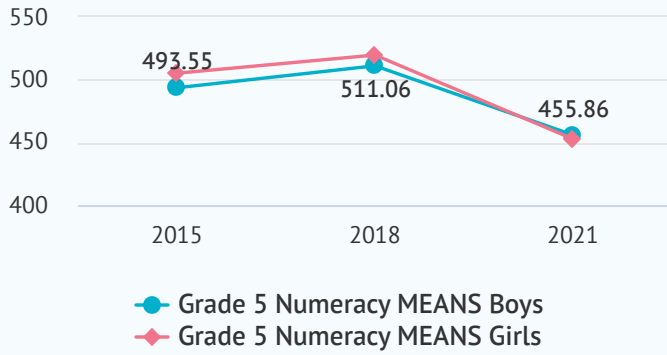


Year	Grade 5 Numeracy MEANS Boys	Grade 5 Numeracy MEANS Girls
2015	497	506.88
2018	509	519.33
2021	455.29	459.98

Mean performance of Grade 5 students in numeracy by gender, FSM, PILNA 2015, 2018 and 2021

Figure CNF5.4.2

Grade 5 Number mean performance by gender over time

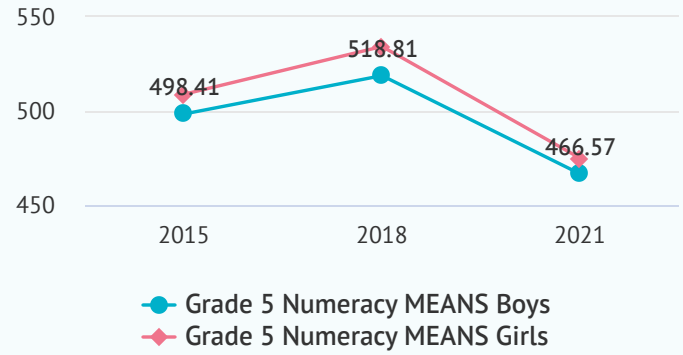


Year	Grade 5 Numeracy MEANS Boys	Grade 5 Numeracy MEANS Girls
2015	493.55	505.15
2018	511.06	519.65
2021	455.86	452.68

Mean performance of Grade 5 students in number strand, by gender, FSM, PILNA 2015, 2018 and 2021

Figure CNF5.4.3

Grade 5 Operations mean performance by gender over time

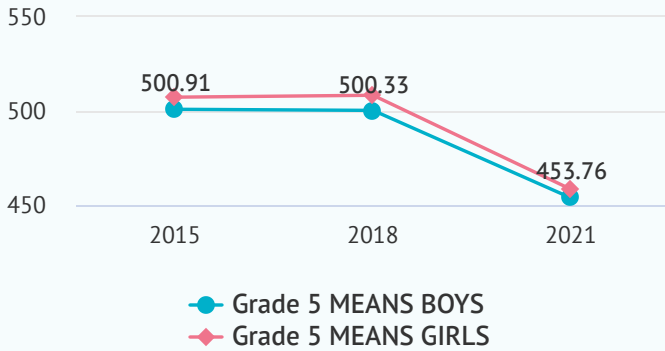


Year	Grade 5 Numeracy MEANS Boys	Grade 5 Numeracy MEANS Girls
2015	498.41	508.9
2018	518.81	534.31
2021	466.57	474.93

Mean performance of Grade 5 students in operations strand, by gender, FSM, PILNA 2015, 2018 and 2021

Figure CNF5.4.4

Grade 5 Measurement & Geometry mean performance by gender over time

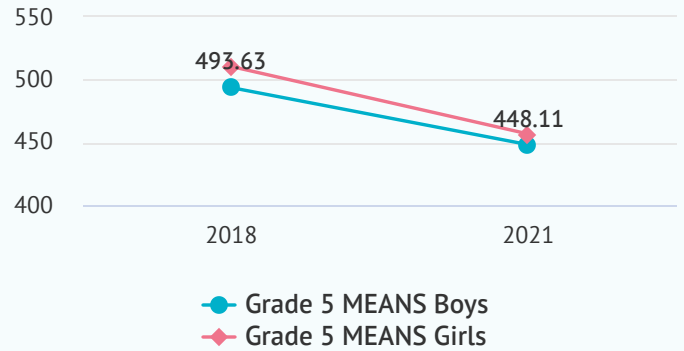


Year	Grade 5 MEANS BOYS	Grade 5 MEANS GIRLS
2015	500.91	507.35
2018	500.33	508.37
2021	453.76	458.34

Mean performance of Grade 5 students in Measurement & Geometry strand, by gender, FSM, PILNA 2015, 2018 and 2021

Figure CNF5.4.5

Grade 5 Data mean performance by gender over time



Year	Grade 5 MEANS Boys	Grade 5 MEANS Girls
2018	493.63	510.48
2021	448.11	456.63

Mean performance of Grade 5 students in data & chance strand, by gender, FSM, PILNA, 2018 and 2021

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