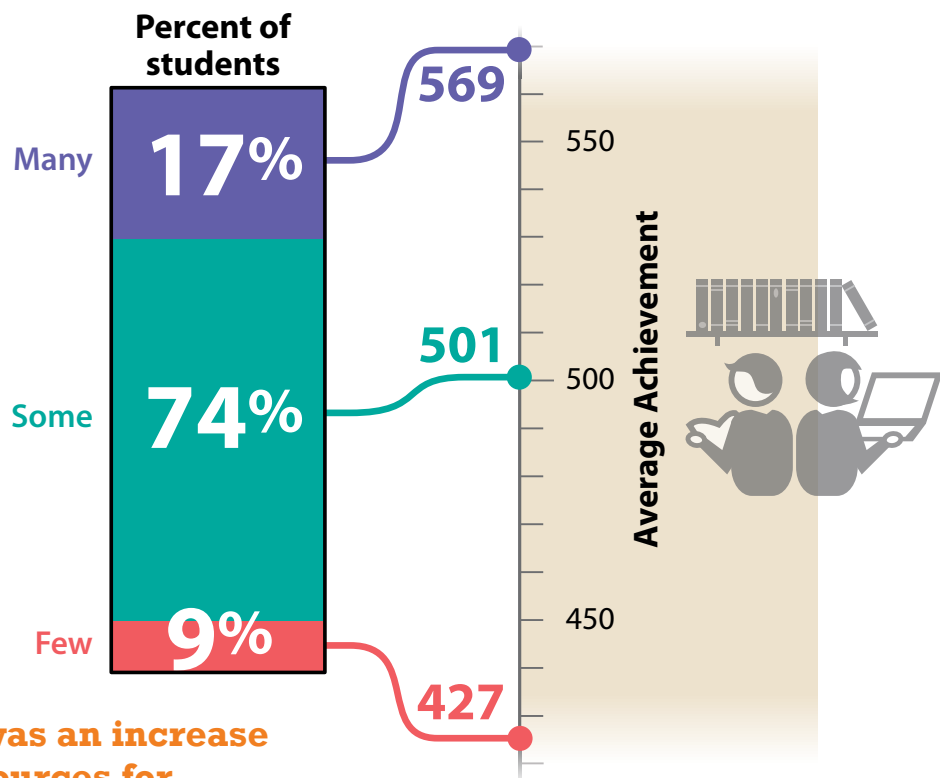


Supportive Home Environment for Learning

Home Resources for Learning

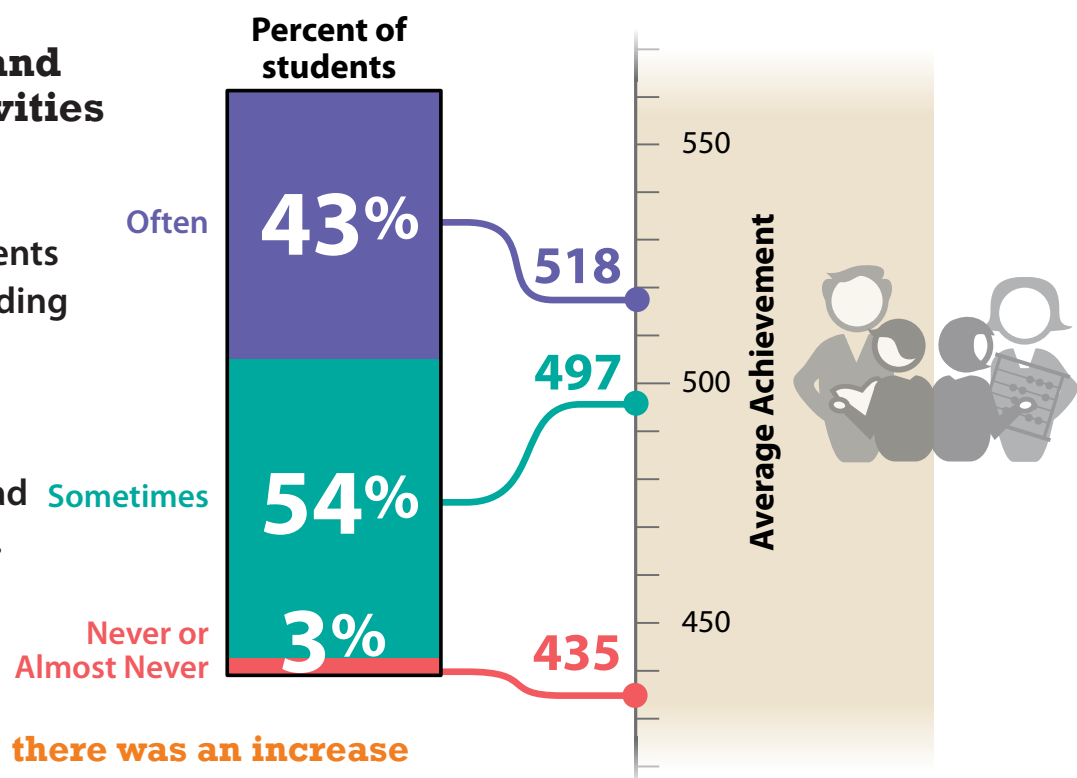
Students whose parents reported many home resources for learning had much higher achievement than students whose parents reported some or few resources.



In 8 countries, there was an increase in students' home resources for learning between 2011 and 2015.

Early Literacy and Numeracy Activities

Students whose parents reported often spending time with them on early literacy and numeracy learning activities had higher achievement.

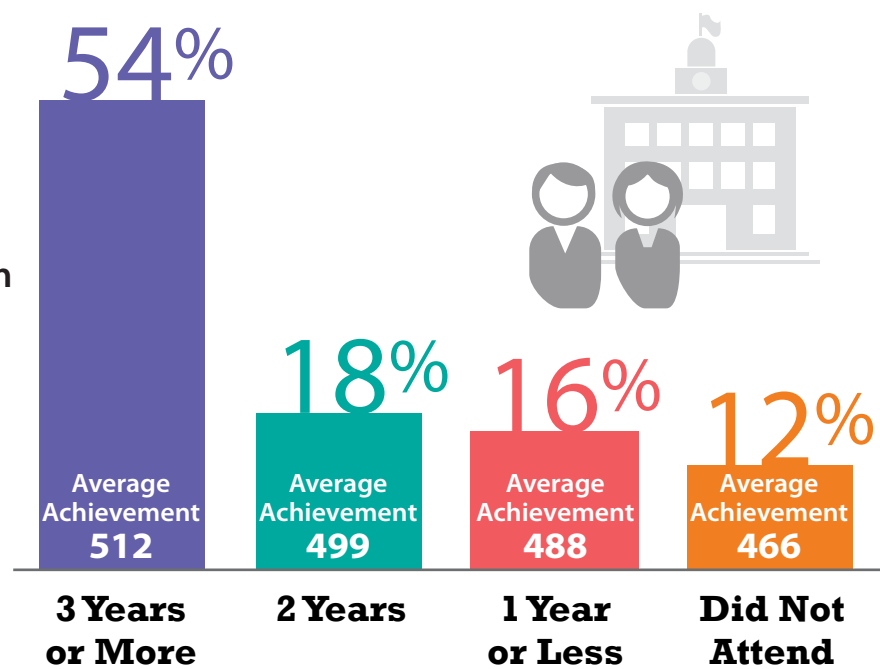


In 14 countries, there was an increase in students' time spent on early literacy and numeracy learning activities.

An Early Start in School

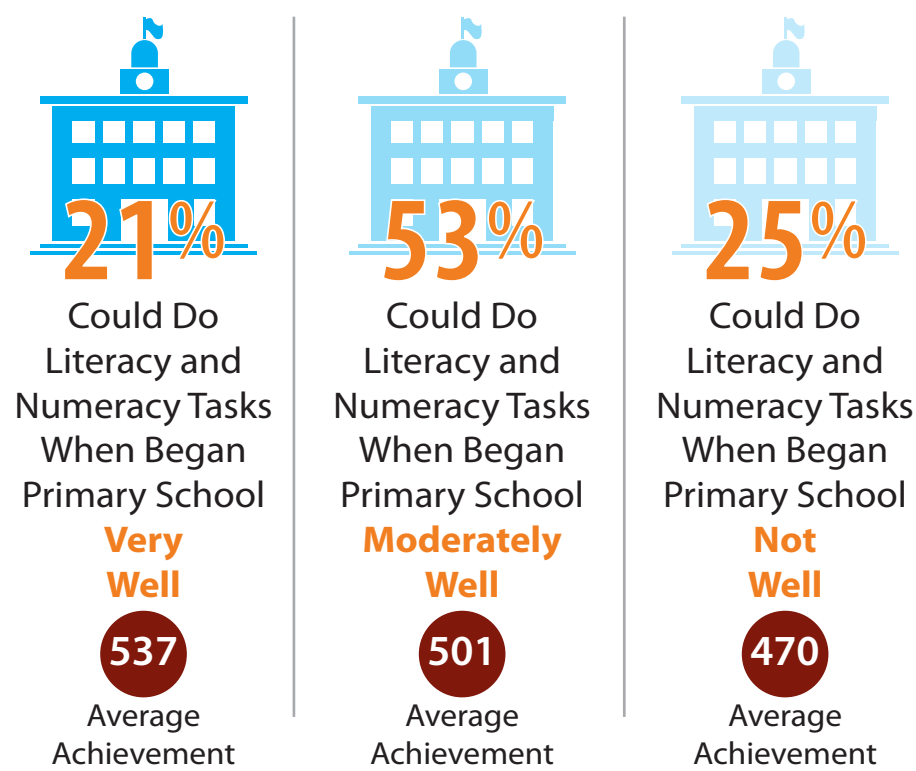
Preprimary Education

There was a positive relationship for fourth grade students between the number of years students attended preprimary education programs and mathematics achievement.



Early Literacy and Numeracy Tasks

Parents' reports on whether students could perform early literacy or numeracy tasks when they began primary school illustrates that early preparation appears to have an effect through the fourth grade.



SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015.
<http://timss2015.org/download-center/>