

Exhibit 1.7: Summary of TIMSS 2019 International Benchmarks of Mathematics Achievement

Advanced International Benchmark	
625	<i>Students can apply their understanding and knowledge in a variety of relatively complex situations and explain their reasoning.</i> Students can solve a variety of multistep word problems involving whole numbers and show an understanding of fractions and decimals. They can apply knowledge of two- and three-dimensional shapes in a variety of situations. Students can interpret and represent data to solve multistep problems.
High International Benchmark	
550	<i>Students apply conceptual understanding to solve problems.</i> They can apply conceptual understanding of whole numbers to solve two-step word problems. They show understanding of the number line, multiples, factors, and rounding numbers, and operations with fractions and decimals. Students can solve simple measurement problems. They demonstrate understanding of geometric properties of shapes and angles. Students can interpret and use data in tables and a variety of graphs to solve problems.
Intermediate International Benchmark	
475	<i>Students can apply basic mathematical knowledge in simple situations.</i> They can compute with three- and four-digit whole numbers in a variety of situations. They have some understanding of decimals and fractions. Students can identify and draw shapes with simple properties. They can read, label, and interpret information in graphs and tables.
Low International Benchmark	
400	<i>Students have some basic mathematical knowledge.</i> They can add, subtract, multiply, and divide one- and two-digit whole numbers. They can solve simple word problems. They have some knowledge of simple fractions and common geometric shapes. Students can read and complete simple bar graphs and tables.

