

Seventh Grade Mathematics Power Standards and Reporting Rubric

Standard 1: Uses and demonstrates ability to use rational numbers to solve problems.

Advanced(AD)	Proficient(PR)	Developing(DE)	Beginning(BE)
Student creates new understanding. Sophisticated application in new or different contexts. Complex level of application. No inaccuracies or gaps in knowledge, processes, applications, solutions, conclusions, or inferences.	Student analyzes content and makes informed judgments supported by set standards and principles. Student applies abstract ideas to concrete problems. No inaccuracies or gaps in knowledge, process, applications, and solutions, with inconsequential gaps in drawing conclusions and making inferences.	Student comprehends and summarizes concepts and ideas. Student makes connections within and between content, but has gaps in understanding, drawing conclusions, and making inferences. May struggle with complex or critical thinking and application.	Student recalls, recognizes, retrieves, or understands information, ideas, principles, and concepts within the context of what they have learned. Inaccuracies or gaps in knowledge, processes, applications, and solutions occur with gaps in attempts to draw conclusions or make inferences. Additional learning support may be required

*Shows ability to add and subtract rational numbers.

*Shows ability to multiply and divide rational numbers.

*Applies knowledge of rational numbers to solve real world problems.

Standard 2: Uses and demonstrates ability to write and solve expressions and equations.

Advanced(AD)	Proficient(PR)goal	Developing(DE)	Beginning(BE)
Student creates new understanding. Sophisticated application in new or different contexts. Complex level of application. No inaccuracies or gaps in knowledge, processes, applications, solutions, conclusions, or inferences.	Student analyzes content and makes informed judgments supported by set standards and principles. Student applies abstract ideas to concrete problems. No inaccuracies or gaps in knowledge, process, applications, and solutions, with inconsequential gaps in drawing conclusions and making inferences.	Student comprehends and summarizes concepts and ideas. Student makes connections within and between content, but has gaps in understanding, drawing conclusions, and making inferences. May struggle with complex or critical thinking and application.	Student recalls, recognizes, retrieves, or understands information, ideas, principles, and concepts within the context of what they have learned. Inaccuracies or gaps in knowledge, processes, applications, and solutions occur with gaps in attempts to draw conclusions or make inferences. Additional learning support may be required

*Shows ability to add and subtract linear expressions

*Shows ability to write and solve one and two-step equations and inequalities.

*Has the ability to use knowledge of equations and inequalities to solve real-life problems.

Standard 3: Uses and demonstrates ability to use ratios and proportions to solve problems.

Advanced(AD)	Proficient(PR)goal	Developing(DE)	Beginning(BE)
Student creates new understanding. Sophisticated application in new or different contexts. Complex level of application. No inaccuracies or gaps in knowledge, processes, applications, solutions, conclusions, or inferences.	Student analyzes content and makes informed judgments supported by set standards and principles. Student applies abstract ideas to concrete problems. No inaccuracies or gaps in knowledge, process, applications, and solutions, with inconsequential gaps in drawing conclusions and making inferences.	Student comprehends and summarizes concepts and ideas. Student makes connections within and between content, but has gaps in understanding, drawing conclusions, and making inferences. May struggle with complex or critical thinking and application.	Student recalls, recognizes, retrieves, or understands information, ideas, principles, and concepts within the context of what they have learned. Inaccuracies or gaps in knowledge, processes, applications, and solutions occur with gaps in attempts to draw conclusions or make inferences. Additional learning support may be required

*Shows ability to write and solve ratios and simplify ratios.

*Shows ability to write and solve proportions using various methods

*Shows ability to solve real life situations using ratios and proportions.

Standard 4: Uses and demonstrates ability to use probability to solve problems.

Advanced(AD)	Proficient(PR)goal	Developing(DE)	Beginning(BE)
Student creates new understanding. Sophisticated application in new or different contexts. Complex level of application. No inaccuracies or gaps in knowledge, processes, applications, solutions, conclusions, calculate probability fromns, or inferences.	Student analyzes content and makes informed judgments supported by set standards and principles. Student applies abstract ideas to concrete problems. No inaccuracies or gaps in knowledge, process, applications, and solutions, with inconsequential gaps in drawing conclusions and making inferences.	Student comprehends and summarizes concepts and ideas. Student makes connections within and between content, but has gaps in understanding, drawing conclusions, and making inferences. May struggle with complex or critical thinking and application.	Student recalls, recognizes, retrieves, or understands information, ideas, principles, and concepts within the context of what they have learned. Inaccuracies or gaps in knowledge, processes, applications, and solutions occur with gaps in attempts to draw conclusions or make inferences. Additional learning support may be required

*Shows ability to find probability in different situations.

*Use knowledge of probability in compound, independent, and dependent events, samples, and populations.

*Shows ability to use knowledge of probability to solve real world problems.

Standard 5: Uses and demonstrates ability to find area, volume, and draw specific geometric figures.

Advanced(AD)	Proficient(PR)goal	Developing(DE)	Beginning(BE)
<p>Student creates new understanding. Sophisticated application in new or different contexts. Complex level of application. No inaccuracies or gaps in knowledge, processes, applications, solutions, conclusions, or inferences.</p>	<p>Student analyzes content and makes informed judgments supported by set standards and principles. Student applies abstract ideas to concrete problems. No inaccuracies or gaps in knowledge, process, applications, and solutions, with inconsequential gaps in drawing conclusions and making inferences.</p>	<p>Student comprehends and summarizes concepts and ideas. Student makes connections within and between content, but has gaps in understanding, drawing conclusions, and making inferences. May struggle with complex or critical thinking and application.</p>	<p>Student recalls, recognizes, retrieves, or understands information, ideas, principles, and concepts within the context of what they have learned. Inaccuracies or gaps in knowledge, processes, applications, and solutions occur with gaps in attempts to draw conclusions or make inferences. Additional learning support may be required</p>

*Shows ability to find areas and volumes of specific figures.

*Shows ability to construct specific geometric figure and calculate actual and scale measurements.

*Shows ability to use knowledge to solve real world problems.