Grade 8 Standards Parent Resource

Unit 5: The Real Number System

Unit 5 includes 2 topics of study, listed below. This resource is for Topic 2.

Topic 1

Topic 2

Magnitude and Scientific Notation

Rational and Irrational Numbers

Торіс	Learning Goals by <u>Common Core State Standard</u> Students will be able to
Rational and Irrational Numbers	 Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number. Use square root and cube root symbols to represent solutions to equations of the form x² = p and x³ = p, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that V2 is irrational. Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions. <i>Instructional videos in the hyperlinks above are meant to support C2.0 content, but may use vocabulary or strategies not emphasized by MCPS.</i>

The Common Core State Standards require a balance of three fundamental components that result in rigorous mathematics acquisition: deep conceptual understanding, procedural skill, and mathematical applications and modeling.



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Topic 2: Rational and Irrational Numbers

