

# The Inquiry

## GRADE 8 UNIT 1: ALGEBRAIC NUMERICS SYSTEM

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In this unit, students will know that there are numbers that are not rational, and approximate them by rational numbers. Students should know that numbers that are not rational are called irrational and understand that every number has a

decimal expansion. For rational numbers students should show that the decimal expansion repeats eventually. Students should also use rational approximations of irrational numbers to compare the size of irrational numbers and approximately locate them on a number line diagram.

Students will apply properties of the law of exponents to simplify expressions. Students will understand the meaning behind square root and cubed root symbols. Numbers will be expressed in scientific notation so students can compare very large and very small quantities and compute with those numbers.

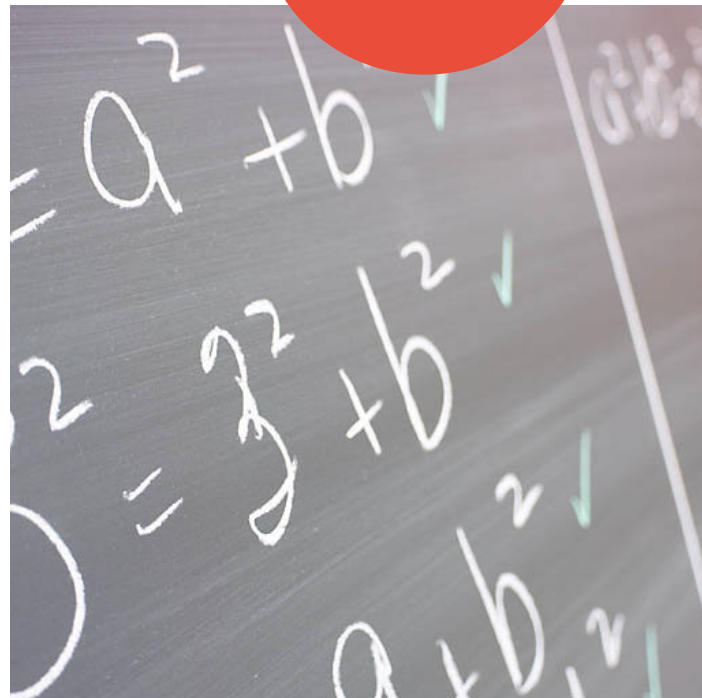
In this inquiry, we will be asking and exploring the following essential questions:

What are square numbers and square roots?

What do I do to convert fractions and decimals to percentages?

What is a ratio?

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## YOUR TEACHER

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