## NS The Number System

- 8.NS.A Know that there are numbers that are not rational, and approximate them by rational numbers.
- 8.NS.A. 1 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.
- Write a repeating decimal as a fraction (8-D.)
- Convert between decimals and fractions or mixed numbers (8-D.4)
- Identify rational and irrational numbers (8-D.5)
- 8.NS.A. 2 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 (e.g., $\Pi^{\mathbf{2}}$ ).
- Estimate positive square roots (8-F.16)
- Estimate positive and negative square roots (8-F.18)
- Estimate cube roots (8-F.24)
- Checkpoint opportunity
- Checkpoint: Rational and irrational numbers (8-D.)
- Checkpoint: Approximate irrational numbers (8-F.)

