

1. Numbers

- Compare and order rational numbers
- Absolute value and opposites
- Number lines
- Convert between decimals and fractions
- Convert between repeating decimals and fractions
- Square roots
- Cube roots
- Classify numbers

2. Operations **(without a calculator)**

- Add, subtract, multiply and divide integers (without calculator)
- Evaluate numerical expressions involving integers
- Evaluate variable expressions involving integers
- Add and subtract rational numbers
- Multiply and divide rational numbers
- Evaluate numerical expressions involving rational numbers
- Evaluate variable expressions involving rational numbers

3. Ratios, rates, and proportions

- Identify equivalent ratios
- Write an equivalent ratio
- Unit rates
- Unit prices
- Solve proportions
- Solve proportions: word problems
- Scale drawings: word problems

4. Properties

- Properties of addition and multiplication
- Distributive Property
- Simplify variable expressions using properties
- Properties of equality

5. Variable Expressions

- Write variable expressions
- Simplify variable expressions involving terms and the distributive property
- Identify equivalent linear expressions
- Write variable equations
- Does x satisfy the equation
- Which x satisfies an equation
- Solve using order of operations
- Rearrange multi-variable equations

6. Solve equations

- Write variable expressions
- Simplify variable expressions involving like terms and the distributive property
- Which x satisfies an equation
- Rearrange multi-variable equations