

# Quarter Mile Math Level 3

## Topics Covered

### Decimals

#### Decimal computing topics

- Decimals: adding
- Decimals: subtracting
- Decimals: add / sub
- Decimals: multiplying
- Decimals: dividing
- Decimals: mul / div
- Decimals: add / sub / mul / div

### Percents

#### Converting topics

- Converting fractions to percents
- Converting percents to fractions
- Converting fractions to decimals
- Converting decimals to fractions
- Converting between % & dec
- Converting %, dec & fractions

#### Computing with percents topics

- Estimating percents
- Finding 50, 100 & 200% of a #
- Finding % of # related to 100
- What is N% of B?
- A is what percent of B?
- A is N% of what number?
- Combo. of % computation topics

### Estimation

#### Special percent topics

- Changing a # by a percent: lev. 1
- Changing a # by a percent: lev. 2
- Changing a # by a percent: lev. 3
- Estimating the percent increase

#### Estimating with decimals topics

- Finding a decimal: level 1
- Finding a decimal: level 2
- Finding a decimal: level 3

#### Estimating with money topics

- Estimating savings at sales

### Integers

#### Integer introduction topics

- Integers: comparing sizes
- Integers: signs only-add/subtract
- Integers: signs only-mul/div
- Integers: signs only-add/sub/mul/div

#### Integer computing topics: level 1

- Integers: adding
- Integers: subtracting
- Integers: adding and subtracting
- Integers: multiplying
- Integers: dividing
- Integers: multiplying & dividing
- Integers: add / sub / mul / div

#### Integer computing topics: level 2

- Integers: intermediate adding
- Integers: intermediate subtracting
- Integers: intermediate add/sub
- Integers: intermediate multiply
- Integers: intermediate dividing
- Integers: intermediate mul & div
- Integers: intermediate-add/sub/mul/div

#### Integer computing topics: level 3

- Integers: advanced add & sub
- Integers: advanced mul & div
- Integers: mix operations(-2+3 x-4)

# Equations

## Equation introduction topics

- Evaluating with integers
- Simplifying number phrases

## Equations with whole numbers topics

- Equations: whole numbers - adding ( $a + 2 = 7$ )
- Equations: whole numbers - subtracting ( $a - 2 = 2$ )
- Equations: whole numbers - adding and subtracting
- Equations: whole numbers - multiplying ( $2a = 18$ )
- Equations: whole numbers - dividing ( $a/2 = 8$ )
- Equations: whole numbers - multiplying and dividing
- Equations: whole numbers - add/sub/mul/div
- Equations: whole numbers - 2 operations ( $2a + 1 = 7$ )

## Equations with integers topics

- Equations: integers - adding ( $a + 2 = -4$ )
- Equations: integers - subtracting ( $a - 3 = -2$ )
- Equations: integers - adding and subtracting
- Equations: integers - multiplying ( $-3a = 15$ )
- Equations: integers - dividing ( $a/3 = -9$ )
- Equations: integers - multiplying and dividing
- Equations: integers - add/sub/mul/div
- Equations: integers - two operations ( $2a - 1 = -3$ )
- Equations: fractional coefficients ( $3/4a = -9$ )