

## Grade 7 Unpacked Math Standards – Number Sense

**7.N.1.1.** Students are able to **represent** numbers in a variety of forms by **describing**, **ordering**, and **comparing** integers, decimals, percents, and fractions.

**Webb level:** 2

**Bloom:** Comprehension

**Verbs Defined:**

**Represent:** write

**Describe:** represent a situation in the correct number form

**Order:** order

**Compare:** determine if a number is greater than, less than, or equal to another number

**Key Terms Defined:**

**Integers:** whole numbers and their opposites, (...-2, -1, 0, 1, 2...)

**Teacher Speak:**

Students are able to represent (write) numbers in a variety of forms by describing (representing a situation in the correct number form), ordering, and comparing (determining if a number is greater than, less than, or equal to another number) integers, decimals, percents and fractions.

**Student Speak:**

I can:

\*write (represent) numbers as integers, decimals, percents and fractions.

\*write fractions as ratios (3:4, 3 to 4,  $\frac{3}{4}$ )

\*arrange integers, decimals, percents and fractions in order.

\*determine if an integer, decimal, percent, or fraction is greater than, less than, or equal to another number (compare).

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**7.N.1.2.** Students are able to **find** and **use** common multiples and factors of whole numbers.

**Webb level:** 1/2

**Bloom:** Application

**Verbs Defined:**

**Find:** determine

**Use:** use

**Key Terms Defined:**

**Factor:** a whole number that divides another whole number without a remainder

- **Greatest common factor:** the largest factor of two or more numbers

**Multiple:** a product of two whole numbers

- **Common multiple:** a multiple that is the same for two or more numbers
- **Least common multiple:** the smallest common multiple for two or more numbers

**Whole numbers:** counting numbers and zero (0, 1, 2, ...)

**Teacher Speak:**

Students are able to find (determine) and use (apply) common multiples and factors of whole numbers.

**Student Speak:**

I can determine (find)

\*common factors and greatest common factor of two numbers

\*common multiples and least common multiple of two or three numbers

I can use

\*common factors and greatest common factor of two numbers to solve problems

\*common multiples and least common multiple of two or three numbers to solve problems

I can use divisibility rules for 2, 3, 4, 5, 6, 9, and 10.

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**7.N.2.1.** Students are able to **add, subtract, multiply, and divide** integers and positive fractions.

**Webb level: 1**

**Bloom: Application**

**Verbs Defined:**

**Key terms defined:**

**Integers:** whole numbers and their opposites

**Positive fractions:** fractions greater than zero

**Teacher Speak:**

Students are able to add, subtract, multiply and divide integers and positive fractions.

**Student Speak:**

I can:

\*add/subtract integers (...-2, -1, 0, 1, 2,...).

\*multiply/divide integers (...-2, -1, 0, 1, 2,...).

\*add/subtract positive fractions.

\*multiply/divide positive fractions.

**7.N.3.1.** Students are able to **use** various strategies to **solve** one- and two-step problems involving positive fractions and integers.

**Webb level: 2**

**Bloom: Application**

**Verbs defined:**

**Use:** apply

**Solve:** find the solution to

**Key terms defined:**

**Strategies:** methods

- estimation,
- guess and check,
- make a table or organized list,
- work a simpler problem,
- look for a pattern,

**One-step problems:** one-operation problems

**Two-step problems:** two-operation problems

**Positive fractions:** fractions greater than zero

**Integers:** whole numbers and their opposites

**Teacher Speak:**

Students are able to use (apply) various strategies to solve (find the solution to) one- and two-step problems involving positive fractions and integers.

**Student Speak:**

I can:

\*apply (use) estimation, guess and check, make a table or organized list, work a simpler problem, look for a pattern, (strategies) to find the solution (solve) for one-step problems involving positive fractions and integers.

\*apply (use) estimation, guess and check, make a table or organized list, work a simpler problem, look for a pattern, (strategies) to find the solution for two-step problems involving positive fractions and integers.