Grade 6 Common Core Math: Additional Skills

In 6th grade, there are additional concepts that need to be reinforced, but should take up very little instructional time. A list of additional concepts is listed below:

* Addition, subtraction, multiplication & division of decimals
* Dividing whole numbers
* Common factors & multiples

In addition, to the concepts listed above, it is assumed that the students entering grade 6 also know how to add & subtract fractions with like & unlike denominators.

 Below is a list of sites that can be used to get free printable worksheets that focus on these topics & can be used as a review.

<http://www.mathworksheets4kids.com/word-problems.html>

 This site has free math worksheets that include a variety of elementary word problems such as addition, subtraction, multiplication and division. These worksheets are suitable for grades 1 – 5.

Pre-Algebra word problems are also included for students from grades 6 - 8. Printable worksheets include fraction word problems, decimals, percent, ratio, Venn diagram and more.

<http://www.greatschools.org/worksheets-activities/5974-real-life-problems-working-with-decimals.gs>

 This site contains real-life word problems focusing on decimal operations.

<https://www.sinclair.edu/centers/tlc/pub/handouts_worksheets/mathematics/DEV085/3_decimals/085_decimal_word_problems_1.pdf>

 This site provides a decimal word problem worksheet along with answer key.

**Interactive SmartBoard Lessons** –

**Adding and Subtracting Decimals** – this lesson allows students to practice adding and subtracting decimals through word problems and straight computation.

<http://exchange.smarttech.com/details.html?id=70c446e2-dd5c-4103-bab9-f96d159fce2d>

**Coordinate Planes** – this lesson teaches what a coordinate plane is along with all the vocabulary associated with it and allows students to find ordered pairs and practice plotting them on a coordinate plane. As a culminating activity, students will be able to practice what they have learned through the games “You Sank My Battleship” and “Mystery Picture”.

<http://exchange.smarttech.com/details.html?id=2c2a09e9-55b9-423c-b36d-5307f00cedc4>

This lesson reviews x-axis, y-axis, origin, quadrants, finding the coordinates of a given point, plotting given coordinates, and practicing with shapes drawn in coordinates.

 <http://exchange.smarttech.com/details.html?id=5e98d73a-40da-4c95-a3a7-e33c8fafdb96>

**Dividing Decimals** – this lesson allows for practice of dividing decimals through straight computation and word problems. The lesson ends with more practice for students in the game “Right to Left and Left to Right”.

<http://exchange.smarttech.com/details.html?id=b3f2d167-f704-4ae6-8ed5-b2bf6bea1fda>

**Divisibility Rules** – this lesson allows students to learn a chant (song) to use for the rules of Divisibility. Students will learn the rules for 2, 3, 5, 6, 9 and 10 and be able to practice using them.

<http://exchange.smarttech.com/details.html?id=610b407f-47b3-461f-b0e6-16a40fe4b54b>

The next activity allows for additional practice to see what numbers are divisible by 2, 3, 4, 5, 6, 9 & 10. Each slide has a large number in the middle and students have to be able to determine if the small numbers on the outside are divisible by the one in the middle.

<http://exchange.smarttech.com/details.html?id=bde777ac-fe68-47dc-9e48-7092882f9b90>

**Factors** – This activity teaches simple factorization of numbers moving towards prime and composite numbers and then prime factors. Practice for common factors and multiples and an example of the Sieve of Eratosthenes are included.

<http://exchange.smarttech.com/details.html?id=6212d003-1651-4559-bdd3-5fe8b8002eda>

**Fractions** – this SB lesson is a jeopardy game that allows students to have fun while practicing multiplying and dividing fractions.

<http://exchange.smarttech.com/details.html?id=744ed74c-8563-4e65-bf36-7c61117c2500>

**Integers** – this lesson teaches and explains what integers are and how to use real-life situations to construct meanings for numbers. There are many word problems to allow students to practice the concepts.

<http://exchange.smarttech.com/details.html?id=4591fa4b-5019-4eb2-94ca-cc594c5f1bfd>

This next lesson is to introduce the concepts of numbers less than zero, and the addition of positive and negative numbers.

<http://exchange.smarttech.com/details.html?id=3e71ec38-d539-4b63-8c7e-53b6757150ce>

**Ratios** – This lesson teaches students about ratios through pictures and numbers. They deepen their understanding by applying ratios to real-life situations.

<http://exchange.smarttech.com/details.html?id=9cbe6c5b-09a9-497a-8807-fcd1426f8db2>

This next activity allows students to solve problems using ratios.

<http://exchange.smarttech.com/details.html?id=99637b14-9203-46ef-916e-33122bd518d2>

This Jeopardy game is for practice of the following 5th/6th grade topics:

Decimals & Properties

Multiplication & Division

Number Theory

Fractions & Decimals

Problem Solving

<http://exchange.smarttech.com/details.html?id=39fe1426-2fdc-4a6f-ab44-2c3350e152cd>

This activity is a Jeopardy game of the following 6th grade topics:

Rates/Ratios

Percents

Decimals

Exponents

Adding Integers

<http://exchange.smarttech.com/details.html?id=ecd3b5c1-d41f-4a26-b520-c975d2d87631>