

6th Grade Math Week #6: Review & Test

You are almost finished! Yea! This handout is just going to be a review of all the weeks then your worksheet is the test. There is no pre-recorded video this week because if you need to go back and review a week you were not comfortable on, I want you to be able to do so.

Week #1: Ratios & Proportional Relationships

Ratio = a comparison of two numbers that can be written 4:1 or 4 to 1 or $\frac{4}{1}$

Proportion = a statement that two ratios are equal that can be written as two equal fractions $\frac{a}{b} = \frac{c}{d}$ or using a colon $a:b = c:d$ To solve for a proportion you cross multiply.

Week #2: The Number System

Multiplying Fractions:

Just multiple across.

Dividing Fractions:

- Step 1: Turn the second fraction (the one you want to divide by) upside down – this is now a reciprocal.
- Step 2: Multiply the first fraction by that reciprocal
- Step 3: Simplify the fraction, if needed.

*If it's a whole number you just turn the whole number into a fraction by putting a "1" under it then follow the same steps.

Week #3: Expression and Equations

Order of Operations: Parentheses, Exponents, Multiply, Divide, Add, Subtract

*Remember: Please Excuse My Dear Aunt Sally

- Review Arithmetic to Algebraic Expression ex. Write an expression to represent 12 more than a. $= a + 12$

Week #4: Geometry

Rectangles, Squares, and Parallelograms Area = Base x Height

Triangles Area = half(base x height)

Surface Area for Rectangular Prisms Area $2(LW + WH + LH)$

Surface Area for Cube Area = $6L^2$

Volume for Rectangular Prisms and Cubes Volume = $L \times W \times H$

Week #5: Statistics & Probability

Mean = average. Add up all the numbers and divide that number by the quantity of numbers

Median = middle number. What ever number is in the center.

Range = the difference between the largest and smallest amount.

Mode = the number that occurs most often in a set