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Introduction

Math Mammoth Grade 6-A Worksheets Collection is the first part of 6th grade worksheets, covering approximately one-half of the school-year's topics.

I created the worksheets with teachers' needs in mind: each one is exactly one page, concentrating on one topic (with the exception of some “review” worksheets; therefore it is easy to distribute and assign them for homework.

These are not your “run-of-the-mill” worksheets. Each worksheet has been “hand-crafted”, with varying problems that both emphasize understanding of concepts and practice computation. There are numerous word problems. In essence, the problems in the worksheets are like what you would find in a regular math book, and far from the mechanical worksheets created by a script. They are meant to be used with the aid of a tutor or teacher as they do not include teaching instructions.

The worksheets were made to loosely follow Virginia state standards for mathematics. However, since standards vary within a state, and change over time, you may not find here each and every 6th grade topic that you might find in some other math book or that might be listed in your state's standards or objectives.

In 6th grade, the students no longer practice the four operations separately. The operations are only briefly reviewed, but more emphasis is put on the properties of the operations and distributive property. Exponentiation and square roots are introduced. There is practice with place value in scientific notation.

Decimal place value is practiced to the millionths. We go through all of the decimal operations. Of course adding, subtracting, and multiplying are familiar by this point, so there is more emphasis on division topics, such as dividing decimals by decimals and repeating decimals.

Introduction to percentage is based on converting a decimal to a percentage. There is practice in finding easy percentages mentally. There will be more percentage problems when studying fractions and ratios and proportions.

Estimation is a skill that you only master by practicing with real things, and several worksheets are set up for that. The focus is on learning metric system units with all their prefixes and on conversions within the metric system. Converting between the customary and the metric system and converting between area units are only introductory topics.

Sixth grade students get a good look at divisibility and factoring. The least common multiple and the greatest common factor are practiced in preparation for fraction topics.