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Introduction

Math Mammoth Grade 7-B Worksheet Collection contains worksheets covering about half of typical 7th and 8th grade mathematics topics (pre-algebra). These worksheets have problems only. In other words, this is a worksheet collection without textbook explanations.

The worksheets are very variable, with numerous word problems and problems that emphasize understanding. They are not made by a script, but hand-crafted one by one.

The 7-B collection contains problem sheets for the latter part of seventh grade. The topics include proportion and percent, statistics and graphs, probability, geometry, right triangles, and polynomials.

Ratios, proportion, and percent are often difficult for students. You will find many worksheets about ratios, proportions and proportional reasoning. Included are also several exploratory worksheets about slope and proportional relationships.

Percent worksheets start out with a sheet that concentrates on the “nitty-gritty” of what percent concept actually is. Mental math in using percent is the focus of one problem sheet, because I feel strongly that students must not just rely on memorized procedures when doing percent problems. Doing mental math helps students understand what percent is all about.

Later on the worksheets contain plenty of word problems where percent is used.

Statistics worksheets cover a large variety of graphs and concepts, including scatter plots, box-and-whisker plots, and stem-and-leaf plots. After that come probability sheets.

The geometry section concentrates on constructions, the concept of similar triangles and other figures, and finding areas, surface areas and volumes of basic three-dimensional figures (solids). You will again find plenty of drawing problems and word problems.

The section on right triangles deals with square root and the Pythagorean theorem . There is also one sheet about the very basic idea of sine as a ratio, and one worksheet on the other two trigonometric ratios.

Lastly, the section on polynomials better fits 8th grade but is included here for completeness' sake.

I wish you success with math teaching!

Maria Miller, the author