



## The Math Teacher's Book of Lists

By Judith A. Muschla, Gary Robert Muschla

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Packed with ready-to-use examples and teaching ideas, this innovative resource is ideal for grades 4-12 lesson plans and instructional materials. Organized into eight sections: Numbers, Measurement, Geometry, Algebra, Trigonometry and Calculus, Math in Everyday Life, Potpourri, and Teacher Reference Lists.

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## **Editorial Review**

### **From the Back Cover**

This unique information source and time-saver for mathematics teachers provides over 300 useful lists for developing instructional materials and planning lessons for elementary and secondary students. Some of the lists supply teacher background; others are to copy for student use, many give new twists to studied topics.

For quick access and easy use, the lists are numbered consecutively, organized into eight sections focusing on eight different areas of math, and printed in a big 8 1/2" x 11" format for easy photocopying of any lists as many times as you need it. Here's just an overview of the ready-to-use lists you'll find in each section:

I. NUMBERS presents 49 lists featuring number theory and operations from "Classification of Real Numbers" and rules for various operations to "Bases" ... "Big Numbers" ... "Mathematical Signs and Symbols" ... and "Problem-Solving Strategies."

II. MEASUREMENT includes over 30 lists, ranging from "Things That Measure" and "Measurement Abbreviations" to lists of metric units and customary US units, "Temperature Formulas" ... "Measurement of Time" ... and "US MoneyCoins and Bills."

III. GEOMETRY offers more than 50 lists such as "Facts about Pairs of Angles" ... "Figure Number Formulas" ... "Basic Figures in Geometry" ... "Properties of Similar Triangles" ... "Pythagorean Triples" ... "Solids" ... and "Formulas for Surface Area."

IV. ALGEBRA gives you over 40 lists from "How to Express Operations Algebraically" ... "Order of Operations" ... and "Algebraic Grouping Symbols," to "The Absolute Facts on Absolute Value" ... "Powers and Roots" ... "Types of Functions" ... and "Conjugate Complex Numbers."

V. TRIGONOMETRY CALCULUS provides more than 30 lists for example, "The Quadrant Signs of the Functions" ... "How to Express Angles in Circular Measure" ... "Graphs of the Inverse Trigonometric Functions" ... "Limits" ... and "Curve Drawing."

VI. MATH IN OTHER AREAS offers 38 lists that tie math to other content areas, such as "Probability and Odds" ... "Ways People Are Paid" ... "How to Balance a Checkbook" ... "Stock Market Words" ... "How to Read the New Food Label" ... "Physical Activities and Calorie Expenditure" ... and "The Number in Popular Sports."

VII. POTPOURRI features 19 lists that show how math is used in everyday life activities, for example, "Careers in Mathematics" ... "World Firsts" ... "Numbers and Symbolism" ... "Tricky Math Problems" ... and "Math and Superstition."

VIII. TEACHER' REFERENCE presents 26 lists to help you in various aspects of your work including "Steps to Help Students Develop Problem-Solving Skills" ... "How to Run a Cooperative Math Class" ... "Math Bulletin Board Ideas" ... "Steps for Evaluating Portfolios" ... and "How to Have a Parents' math Night."

You'll also find a special section at the end with over 20 full-page activity sheets that reinforce the concepts and skills presented in the lists. "Nets for Regular Polyhedra," for example, involves students in making models so they can examine their properties.

In Short, **The Math Teacher's Book of Lists** gives you an unparalleled source of good examples, key words, teachable content, and teaching ideas that might otherwise take many years and much effort to compile! It will save you time and help you instill in your students a genuine appreciation for the world of mathematics.

## About the Author

**Judith Muschla** received her B.A. in Mathematics from Douglass College at Rutgers University and is certified K=12. She has taught mathematics at both the middle school and high school in South River, New Jersey, for the last 20 years, and was the recipient of the 1990-91 Governor's Teacher Recognition Program Award in New Jersey.

**Gary Robert Muschla** received his B.A. and M.A.T. from Trenton State College, and teaches at Appleby School in Sportswood, New Jersey. He has spent much of his 20 years in the classroom teaching mathematics at the elementary level. He has also taught reading and writing

## Users Review

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#### **Ashley McKay:**

This The Math Teacher's Book of Lists book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you receive by reading this book will be information inside this publication incredible fresh, you will get data which is getting deeper a person read a lot of information you will get. This specific The Math Teacher's Book of Lists without we know teach the one who studying it become critical in contemplating and analyzing. Don't possibly be worry The Math Teacher's Book of Lists can bring if you are and not make your bag space or bookshelves' come to be full because you can have it within your lovely laptop even telephone. This The Math Teacher's Book of Lists having fine arrangement in word along with layout, so you will not really feel uninterested in reading.

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