VISUAL PROBLEMS OF COLOR: Symposium, Vols. I and II—George Wald and others—*Chemical Pub. Co.*, 395 p., 367 p., illus., $8.50 each. Proceedings contain 40 papers on results of scientific investigations in 11 countries.

VOCABULARIO TECNICO INGLES-ESPANOL—Popular Mechanics, Ed.—*Hawthorn*, rev. ed., 171 p., illus., $2.95. English-Spanish dictionary of technical terms.

WHAT'S NEW IN SCIENCE—Fred Reinfeld—*Sterling*, rev. ed., 206 p., illus., paper, $1.25. Deals with scientific developments during 1960, indexed.

WONDERS OF THE WASP'S NEST—Sigmund A. Lavine—*Dodd*, 63 p., illus. by Ernest H. Hart, $3. Informative reading for boys and girls.

THE WORLD'S WAR ON WANT: How United Nations Members Share Skills and Resources Through Technical Assistance—Kathleen McLaughlin—*Oceana*, 80 p., $2.50; paper, $1. Short review of U.N. technical aid to under-developed countries.

• Science News Letter, 80:388 December 9, 1961

AGRICULTURE
Two New Barley Varieties Developed

➤ TROPHY and Larker, two new varieties of barley have been developed by the North Dakota Agricultural Experiment Station as the result of an accelerated breeding program.

Both are superior in kernel plumpness to the presently grown malting varieties, Traill and Kindred. By growing in greenhouses and increasing field crops, 12 generations were grown in seven years.

The new varieties have better or equal protein content, malt extract percentage and enzymatic activity, and yields compare favorably with Traill but are superior to Kindred. The new varieties, like the old, are resistant to stem rust. Trophy appears to have some resistance also to net blotch, a leaf blighting disease.

To increase the seed, more than 4,000 acres in North Dakota were sown to Trophy and Larker this year.

• Science News Letter, 80:389 December 9, 1961

Questions

ASTRONOMY—What are four possib'e explanations suggested by scientists for the Star of Bethlehem? p. 386.

ENTOMOLOGY—What new method of insect preservation eliminates the need of pinning and mounting specimens in the field? p. 387.

MEDICINE—What major advance of atomic medicine will reduce the hazards of childbirth? p. 379.

OPHTHALMOLOGY—Is it dangerous to the eyes to watch TV and movies? p. 384.

Photographs: Cover, U.S. Naval Ordnance Laboratory; p. 379, Biographical Photographic Association; p. 382, F. C. Livingstone; p. 383, General Electric Company and Lockheed Missiles and Co.; p. 386, Lick Observatory; p. 392, Science Service.

BLAISDELL PUBLISHING COMPANY
(A division of Random House, Inc.)

We are pleased to announce the publication of BLAISDELL SCIENTIFIC PAPERBACKS. The first six titles in this new series are translations of the Russian series of mathematics paperbacks known as "Popular Lectures in Mathematics." These paperbacks have been translated by Halina Moss under the editorial supervision of Ian N. Sneddon. The BLAISDELL SCIENTIFIC PAPERBACK SERIES is directed to an audience of educators, laymen, high school and college students, and research workers in all fields of science.

7830. INEQUALITIES, P. P. Korovkin 95c

Several remarkable inequalities that have played major roles in diverse branches of mathematics are presented with their applications to interesting problems. Korovkin describes the use of these inequalities in the calculation of limits and in the finding of greatest and least values; he gives clear proofs of the inequalities and detailed solutions to problems.

7820. GEOMETRICAL CONSTRUCTION USING COMPASSES ONLY, A. N. Kostovskii 95c

Basing his book on the rich theory of constructions in the Euclidean plane, Kostovskii describes how work in the geometry of compasses has been extended to form a theory of constructions in non-Euclidean planes (such as the projective plane of a perspective drawing). He proceeds to a general discussion of methods for solving construction problems with compasses and then to particular problems.

7870. THE RULER IN GEOMETRICAL CONSTRUCTIONS, A. S. Smogorzhevskii 95c

The requirements of surveying and the development of theories of perspective have spurred the study of geometrical constructions that can be performed with the ruler only. Smogorzhevskii discusses typical construction problems that can be solved with the ruler alone (or with the ruler and an auxiliary figure). He uses methods of synthetic geometry exclusively.

7850. THE METHOD OF MATHEMATICAL INDUCTION, I. S. Sominskii 95c

A major tool for modern mathematicians, the method of mathematical induction is the expression of a simple concept. The method consists in proving the validity of a statement by demonstrating that if it holds for 1 and for n, then it must also hold for $n + 1$. Sominskii presents the essentials of the method, many examples of its use, and problems for the reader to solve with its aid.

7803. SOME APPLICATIONS OF MECHANICS TO MATHEMATICS, V. A. Uspenskii 95c

In this book, Uspenskii discusses some of the mathematical problems that can be solved elegantly through applications of the methods of classical mechanics. He formulates these problems in terms of mechanical analogues and delineates their solutions, using the laws of mechancal equilibrium.

7815. FIBONACCI NUMBERS, N. N. Vorob'ev 95c

Some of the remarkable properties of Fibonacci numbers and their occurrence in number theory, continued fractions, and geometry are treated here. In his discussion of the Golden Section rectangle (the ratio of the lengths of whose sides is the ratio of two consecutive Fibonacci numbers). Vorob'ev cites the attempts of ancient and medieval philosophers to base aesthetic and philosophical theories on the beauty of these figures.

NEW MATHEMATICAL LIBRARY
(Published by Random House, Inc.)

This new paperback series is published under the auspices of the School Mathematics Study Group and is aimed at strengthening the teaching of mathematics and is also expected to excite and educate a wide audience of students and laymen who want to explore all phases of modern mathematics.

The first six volumes in this series are:

7901. NUMBERS: RATIONAL AND IRRATIONAL by Ivan Niven, Professor of Mathematics, University of Oregon $1.95

This book deals with the real number system, concerning itself especially with ways of classifying numbers into various categories, for example, it provides criteria for deciding whether a given number is rational or irrational, whether it is algebraic or transcendental, and so on.

7902. WHAT IS CALCULUS ABOUT? by W. W. Sawyer, Professor of Mathematics, Wesleyan University $1.95

Calculus is presented as a way of understanding such phenomena as the velocity of a moving object at any movement, the rate at which moving objects change their speeds, and, more generally, the way in which quantities vary as factors affecting them change.

7903. AN INTRODUCTION TO INEQUALITIES by Edwin Beckenback, Professor of Mathematics, University of California, Los Angeles, and Richard Bellman, RAND Corporation $1.95

An introduction to the fascinating world of unequal magnitudes, this book begins with a systematic discussion of the relation "greater than" and the meaning of "absolute values" of numbers.

7904. GEOMETRIC INEQUALITIES by Nicholas D. Kazarinoff, Associate Professor of Mathematics, University of Michigan $1.95

This book simply states geometric problems about maximum and minimum lengths and areas; some of these have been solved, others have puzzled men since the Greeks.

7905. THE CONTEST PROBLEM BOOK Compiled and with solutions by Charles T. Salkind $1.95

Problems from the annual high school contest of the Mathematical Association of America.

7906. THE LORE OF LARGE NUMBERS Philip J. Davis, Chief of the Numerical Analysis Section of the National Bureau of Standards $1.95

Using large numbers as a unifying theme, the author introduces exponents, computation, number theory, and sequences. Several historical passages reveal mathematics as a living thing that grows and changes with the generations. Tables listing interesting and useful numbers in the physical universe are appended.

Blaisdell Publishing Company
22 East 51st Street
New York 22, New York

Checks must accompany order. Books will be sent postpaid.

Total Price

7830	7850	7901	7904
7820	7803	7902	7905
7870	7815	7903	7906

Name ....

Address ....

City ....Zone........State ....