

caricature in the interests of a meritless national glorification. The young Jonathans are gravely taught that the war of 1812 established the superiority of the United States navy, and the proof is given in a table of naval victories. The *four* frigates and *eight* sloops of the Yankee navy were superior to *one hundred* ships of the line, and *five hundred* smaller vessels of the British navy, because the Yankee vessels overpowered a few rash and smaller British vessels on their coast which were not equally matched with them in men or metal.

SPELLING, Vol. I., 1887 (Library Bureau, 32 Hawley Street, Boston). The four numbers of this valuable quarterly make a very handsome volume, which retails at \$1.50. Subscribers can get the numbers unbound as they come out for \$1.00 per annum. Nothing is more certain than in the not very distant future a radical change will come over our antiquated and iniquitous law-protected orthography. And when it comes, people will only be surprised that so great, and so unexpected, and so mischievous a popular superstition was found to be interwoven through all the meshes of our practical nineteenth century civilization. Let the doubter read, then dispute. To-day, all the leading philologists in the English world are spelling reformers.

ARITHMETICAL EXERCISES AND EXAMINATION PAPERS, Hall and Knight (London, MacMillan & Co., and New York, 1888).

This neat hand-book of some 170 pages is just what our teachers would find most convenient for school drill. Part I. includes decimals, practice, simple proportion and simple interest; Part II. takes in compound proportion, percentages, averages and proportional parts; Part III. square root, areas and volumes are introduced; Part IV. includes discount and compound interest; Part V. profit and loss, and stocks; Part VI. cube root and duodecimals. The appendix contains two hundred graduated exercises in logarithms and mensuration, arranged in twenty papers of ten questions each; the whole being preceded by a list of numerical constants and formulæ in mensuration.

METRIC TABLES AND PROBLEMS, by Oscar Granfer, and PRIMARY GEOGRAPHY, by Emma L. Pardon, both published by Bardeen, of Syracuse, are valuable hand-books for the teacher. The first contains over twenty pages of excellent problems. The latter, about thirty pages, in which we find an admirable course of instruction for the conducting of lessons in elementary geography.

ARMY EXAMINATION PAPERS, 1882-7. London, MacMillan & Co., and New York, 1888. This small volume of about one hundred pages will be found very useful by the general student as well as by the teacher. It will be specially valuable to candidates preparing for admission to the Royal Military College of Canada. The examination papers are on 1, arithmetic; 2, Euclid; 3, algebra; 4, elements of geometrical drawing; 5, French; 6, geography; 7, English dictation.

ELEMENTARY CLASSICS, Xenophon, Anabasis, bk. II., by A. S. Walpole, M. A. Published by MacMillan & Co., London and New York. This is a small pocket edition with notes and vocabulary. The clearness of the type and the care that has been taken to make the edition free from errors, make it a very desirable work for students.

EXCHANGES.

The *Century* for September is a number that should be in the hands of every educational reader. Among the important articles are Mr. G. R. Parkin's paper on Uppingham School, The Industrial Idea in Education, The University and the Bible, Women who go to College, and other valuable papers on educational topics. . . . *St. Nicholas* for September is an excellent number, and as usual bright with illustrations and wholesome reading. Both magazines are published by the *Century Company*, New York. . . . *Garden and Forest*, published by D. A. Munro, New York, maintains a high order of excellence, and no one who is interested in horticulture and the proper keeping of public and private grounds should be without it. . . . The *Scientific American* of September 1st, has an illustrated article on the great timber ship recently towed into New York, from Joggins, N. S. . . . The *Illustrated London News* (New York edition) for September 1st contains among other fine illustrated articles, a sketch and portrait of Miss Ramsay, now the wife of the head master of Trinity College, Cambridge, the lady who recently achieved the highest academical honors within the reach of female students in England. . . . The greater part of the *Scienc Cross* for September is devoted to a valuable article containing the address of Prof. S. P. Langley, read before the American Association for the advancement of science on the "History of a Scientific Doctrine." In tracing the history of radiant heat he gives an interesting glimpse at the possibility of error creeping in, in the deductions of even the wisest men, and of its continuing to be maintained for generations. The "Sunfishes and their Allies" forms the subject of an illustrated article which will be read with interest by all the students of natural history. . . . Among the many bright stories and beautiful illustrations of the September *Wide Awake*, will be found an exceedingly interesting account of the Ramona Industrial School for Apache girls, established in Santa Fe, in 1886, and receiving its name in honor of "that tender friend of the Indians, Mrs. Helen Hunt Jackson," and of her great book *Ramona*. Summer Lanes, another very attractive and instructive article, with its choice illustrations taken from the paintings of some of the celebrated masters, gives a very good history of the growth of landscape painting. . . . The *Science of Photography* is a new monthly journal published by Queen & Co., Chestnut street, Philadelphia. It will be invaluable to the amateur photographer who is now becoming legion. . . . The *Microscope*, a dollar monthly, published at 25 Washington Avenue, Detroit, Mich., U. S. A., is the best microscopical journal for its price which is published. . . . The *Enterprise* published at New Glasgow, Nova Scotia, comes out as one of the finest weeklies in Canada. Mr. Albert Dennis, of the *Colonial Standard*, with a name famous all over Canada in journalism, is understood to be the enterprising projector. . . . *Science*, published weekly, 47 Lafayette Place, New York, is one of our most valuable exchanges. It keeps the reader in touch with every new point of scientific interest in the world in general, and in America in particular.