

**GRADED EXERCISES
IN ARITHMETIC. SIXTH
YEAR - FIRST HALF**

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Graded Exercises in Arithmetic. Sixth Year - First Half by Maria Jury & Jerome A. O'Connell & Edward B. Shallow

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GRADED EXERCISES IN ARITHMETIC. SIXTH YEAR - FIRST HALF

GRADED
EXERCISES IN ARITHMETIC

SIXTH YEAR—FIRST HALF

BY

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PREFACE

THIS book has been prepared for the purpose of simplifying the study of arithmetic and of fixing its facts in the memory.

It includes work for the first half of the sixth year, divided into five main parts, corresponding to the months of the usual school term. Each of these parts is again divided into twenty groups of problems, corresponding to the usual number of school days in a month. One half of the oral and the written work in each group of problems will require for completion the attention of an average class for about thirty-five or forty minutes.

Each month's work is preceded by an outline of the topics to be studied, in which the new work is distinguished from the rest by being printed in full-faced type.

Provision is made for frequent reviews, including rapid calculations in the fundamental processes and examples in the most important parts of the arithmetic previously studied. By this means a proper perspective of the subject is maintained.

While most of the material has been selected for pupils of average ability, additional problems are given for pupils of advanced standing. These problems can be used also for variety, when pupils are required to go over the grade work a second time.

The language used is simple, clear, and precise. The study of mathematical relations should not be complicated by difficulties of language, nor by distractions introduced through the content of the problems. The problems here given are within the experiences of the children, and are true to conditions of everyday life.

The problems present a gradual increase in difficulty—an arrangement that conduces to steady progress and ease of comprehension. The topics are treated in the order suggested by the most approved courses of study.

THE AUTHORS.

THIS BOOK CONTAINS

RAPID DRILLS	Multiplication
ROMAN NUMBERS	Division
FUNDAMENTAL OPERATIONS	COMPARISON OF WEIGHTS AND MEASURES
Addition	CARPETING
Subtraction	PLASTERING
Multiplication	FENCING
Division	AREAS OF TRIANGLES, PARALLELOGRAMS, CIRCLES
COMMON FRACTIONS	CONTENTS OF BINS AND BARRELS, IN BUSHELS, GALLONS, ETC.
Reduction	PROBLEMS
Addition	Finding a part of a number
Subtraction	Finding a number when a fractional part of it is given
Multiplication	Finding what part one number is of another
Division	Finding a number when the number plus or minus a fractional part of it is given
BILLS and CHECKS	PERCENTAGE
DENOMINATE NUMBERS	The four type problems
Reduction	
Addition	
Subtraction	

SIXTH YEAR—FIRST HALF

FIRST MONTH

RAPID DRILLS—daily.

THE FUNDAMENTAL OPERATIONS—to secure quickness and accuracy.

COMMON FRACTIONS—reviewed.

DECIMAL FRACTIONS—reviewed.

DENOMINATE NUMBERS. Reduction, addition, subtraction, difference in time between two dates.

TABLES—reviewed.

BILLS—reviewed.

PERCENTAGE. Finding per cents of numbers. Finding what per cent one number is of another.

PROBLEMS. To cover the work of the month in common and decimal fractions and tables; also two of the type problems.

I

Oral.

Rapidly add:

150	842	253	164	845	268	288	157	850	416	246
<u>125</u>	<u>126</u>	<u>145</u>	<u>138</u>	<u>272</u>	<u>341</u>	<u>156</u>	<u>234</u>	<u>278</u>	<u>173</u>	<u>167</u>

How many quarts are there in a bushel? in $\frac{1}{2}$ of a bushel? in $\frac{1}{4}$ of a bushel? in $\frac{3}{4}$ of a bushel? in $\frac{1}{3}$ of a bushel? in $\frac{2}{3}$ of a bushel? in $\frac{4}{5}$ of a bushel?

How many pints are there in a gallon? in $\frac{1}{2}$ of a gallon? in $\frac{1}{4}$ of a gallon? in $\frac{3}{4}$ of a gallon? in $\frac{1}{3}$ of a gallon? in $\frac{2}{3}$ of a gallon? in $\frac{4}{5}$ of a gallon?

How many pints are there in $\frac{1}{2}$ of a bushel? in $\frac{1}{3}$ of a bushel? in $\frac{2}{3}$ of a bushel?

1. How many quarts and pints are there in $\frac{3}{8}$ of a peck?
2. How many gills are there in $\frac{1}{2}$ of a quart?
3. How many pints and gills are there in $\frac{1}{4}$ of a quart?
4. A dealer exchanged 8 qt. of oil, at \$1 a quart, for cider worth 25¢ a gallon. How much cider did he get?
5. Howard shot 11 hares, Howell 12, and James 18. How many did they shoot all together?

Rapidly add:

234	456	345	235	821	432	543	524	242	872	536
123	123	234	145	190	256	268	345	156	128	247

How many ounces are there in a pound Troy? in a pound avoirdupois?

How many ounces are there in $\frac{1}{2}$ of a pound Troy? in $\frac{1}{4}$ of a pound Troy? in $\frac{1}{4}$ of a pound avoirdupois? in $\frac{3}{8}$ of a pound avoirdupois?

How many pennyweights are there in $\frac{1}{2}$ of an ounce? in $\frac{3}{4}$ of an ounce? in $\frac{5}{8}$ of an ounce? in $\frac{7}{10}$ of an ounce?

How many grains are there in $\frac{1}{4}$ of a pennyweight? in $\frac{2}{3}$ of a pennyweight? in $\frac{3}{4}$ of a pennyweight? in $\frac{4}{5}$ of a pennyweight?

Which is heavier, an ounce of silver or an ounce of feathers?

6. How many pennyweights are there in $\frac{3}{4}$ of a pound?
7. How many grains are there in $\frac{1}{2}$ of an ounce Troy?
8. How many grains are there in 1 oz. avoirdupois? in 1 oz. Troy?
9. How many ounces are there in 2½ lb. Troy?
10. A merchant sold some rice for \$15, some sugar for \$17, and some molasses for \$22. How much did he receive for all?