FRACTIONS: A TEACHER'S MANUAL OF OBJECTIVE AND ORAL WORK

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649306268

Fractions: A Teacher's Manual of Objective and Oral Work by Helen F. Page

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

www.triestepublishing.com

HELEN F. PAGE

FRACTIONS: A TEACHER'S MANUAL OF OBJECTIVE AND ORAL WORK

Trieste

FRACTIONS.

A TEACHERS' MANUAL

OF

OBJECTIVE AND ORAL WORK.

BY

HELEN F. PAGE,

STATE NORMAL AND TRAINING SCHOOL, NEW BRITAIN, CONN.

BOSTON, U.S.A.:
GINN & COMPANY, PUBLISHERS.
1891.

TYPOGRAPHY BY J. S. CUSHING & CO., BOSTON, U.S.A.
PRESSWORK BY GINN & CO., BOSTON, U.S.A.

CONTENTS.

FRACTIONS.

REDUCTION, ADDITION, AND SUBTRACTION.

I. First set: halves, fourths, and eighths.

1. OBJECTIVE WORK.

(*a*) *With card-board disks.*

(Each child has a pair of scissors, and two disks divided by a light pencil-mark into eighths.)

Teacher. Cut one disk into halves.
Show me a half.
How many halves have you?
Cut one-half into two equal parts.
What part of the disk is one of these pieces?
Show as many fourths as you can (in one disk).
Tell something about one-half.
What is the best name for $\frac{2}{4}$?
Show $\frac{3}{4}$. What can you find in it?
Show $\frac{1}{2}$. Put with it $\frac{3}{4}$. What have you?
Show $\frac{1}{2}$. Take away $\frac{1}{4}$. What have you left?
Show $\frac{3}{4}$. Take away $\frac{1}{2}$. What is left?
Show $\frac{1}{4}$. Show $\frac{1}{2}$ of it. What part of the whole disk have you?
Show as many eighths as you can find (in one disk).
Show $\frac{1}{2}$. Tell what you can about $\frac{1}{2}$ and eighths; $\frac{1}{4}$ and eighths; $\frac{3}{4}$ and eighths.
Show $\frac{2}{8}$. What is a better name?
Show $\frac{4}{8}$. What is a better name?
Show $\frac{6}{8}$. What is a better name?
Show $\frac{3}{8}$. What can you find in it? In $\frac{5}{8}$? In $\frac{7}{8}$?

Take $\frac{1}{2}$. Put with it $\frac{1}{8}$. What have you now?
Take $\frac{1}{2}$. Put with it $\frac{3}{8}$. What have you?
Put $\frac{5}{8}$ with $\frac{1}{2}$. What have you?
Put $\frac{7}{8}$ with $\frac{1}{2}$. What have you?
Show $\frac{1}{4}$. Put with it $\frac{1}{8}$. What is the sum?
Put $\frac{3}{8}$ with $\frac{1}{4}$. What have you?
$\frac{5}{8}$ and $\frac{1}{4}$ = ? $\frac{1}{2}$ and $\frac{1}{4}$ = ?
Show $\frac{3}{4}$. Put with it $\frac{1}{8}$. What is the sum?
$\frac{3}{4}$ and $\frac{3}{8}$ = ? $\frac{3}{4}$ and $\frac{5}{8}$ = ? $\frac{3}{4}$ and $\frac{7}{8}$ = ?
Show $\frac{1}{2}$. Take away $\frac{1}{8}$. What is left?
Take away $\frac{3}{8}$ from $\frac{1}{2}$. What remains?
Show $\frac{1}{4}$. Take away $\frac{1}{8}$. What remains?
Show $\frac{3}{4}$. Remove $\frac{1}{8}$, $\frac{2}{8}$, $\frac{5}{8}$. What remains in each case?
From $\frac{3}{8}$ take $\frac{1}{4}$. What is left?
From $\frac{5}{8}$ take $\frac{1}{2}$. What is left?
$\frac{5}{8} - \frac{1}{4}$ = ? $\frac{7}{8} - \frac{1}{2}$ = ? $\frac{7}{8} - \frac{1}{4}$ = ? $\frac{7}{8} - \frac{3}{4}$ = ?

NOTE. The card-board disks have been suggested for this work because they are cheap and easily provided. It would be unwise, though, to confine one's self to any one object.

(*b*) *With denominate numbers.*

1) Measure $\frac{1}{2}$ peck of corn. Put with it one quart. What part of a peck have you?
2) Measure $\frac{7}{8}$ bushel. Remove $1\frac{1}{2}$ pecks. What part of a bushel have you?
3) With 3 quarts put $\frac{1}{4}$ peck. What part of a peck have you now?
4) Show 7 quarts. Remove $\frac{1}{2}$ peck. How many quarts are left?
5) Measure $\frac{1}{2}$ bushel. Remove $\frac{1}{4}$ bushel. How many pecks are left? How many quarts?
6) With $\frac{3}{4}$ peck put 3 quarts. Add $\frac{3}{8}$ peck. Add $\frac{1}{2}$ peck. What part of a bushel have you?
7) Measure 7 quarts. Remove $\frac{3}{8}$ peck. What part of a peck is left?