

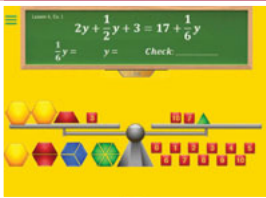
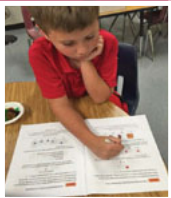


Hands-On Equations®
Making algebra child's play!®

Over 30 years of service!
Hands-On Equations®
Making Algebra Child's Play®



**Developing
Fractions Sense®**



Borenson and Associates, Inc.
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More than 2,500
Making Algebra Child's Play®
workshops conducted since 1990.

2017/2018



Excellent Full-Day Staff Development Workshops

Designed by Dr. Henry Borenson and presented by nationally certified instructors

Hands-On Equations®

The classic program for introducing students to algebraic linear equations

Used by more than 50,000 teachers

- 1. Making Algebra Child's Play® (3 – 9).** Provide your young students with a concrete and pictorial introduction to algebraic linear equations. In just 6 lessons they will be solving equations such as $4x + 3 = 3x + 9$ and $2(2x + 3) = 3x + 7$ while having fun. Apply the concepts learned to the solution of simple verbal problems, such as *Sally is 4 years older than Tim. If the sum of their ages is 20, how old is each?* Learn techniques for teaching addition and subtraction of integers, and much more.
- 2. Demystifying Verbal Problems (5 - 9).** Apply the methods of Hands-On Equations to the solution of verbal problems, including age, consecutive number, and distance problems. Learn a 5-step approach your students can follow to represent and solve verbal problems concretely and pictorially. Example: *Find three consecutive numbers such that triple the last number gives the same result as twice the sum of the first two numbers.*

Developing Fractions Sense®

Learn sense-making approaches to presenting the CCSS fraction standards for grades 3 - 5

- 3. Developing Fractions Sense 3.** See how you can use fraction blocks, rectangular grids, and number lines to provide your students with a strong foundation for working with fractions. Experience concrete and visual approaches to fraction equivalence. Example: *Use your fraction blocks to find the missing number in $5/2 = ?/6$.*
- 4. Developing Fractions Sense 4.** See how you can provide your students with a concrete and visual introduction to fractional concepts which will serve as the foundation for arithmetic methods. Special focus on comparing fractions using a benchmark fraction. Example: *Use a benchmark fraction to compare $4/3$ and $5/4$.*
- 5. Developing Fractions Sense 5.** Simplify the teaching of subtracting mixed fractions with different denominators with our innovative addition method. Provide your students with a concrete and intuitive approach to fraction multiplication, and much more. Example: *Use your fraction blocks to find the product $3/5 \times 2 \frac{1}{2}$.*

Note: DFS 3 and DFS 4 are also available as a combined one-day workshop.

Hands-On Equations® Fractions

Learn an intuitive, concrete approach to introducing fractional linear equations

- 6. Hands-On Equations Fractions (5 – 9).** Provide your students with a concrete and intuitive approach to solving fractional linear equations such as $y + \frac{1}{3}y + 15 = 2y + 5$ and $y + \frac{1}{3}y - 4 = 16 + \frac{1}{2}y$. This program will strengthen your students' understanding of fraction equivalence and the algebraic principles used in solving linear equations. Learn new strategies for solving these kinds of equations abstractly.

Visit www.borenson.com for a more in-depth description of each workshop.

To schedule a workshop, please write to info@borenson.com or call 800-993-6284.

Borenson Math Products

Prices subject to change without notice.

Hands-On Equations® (Grades 3 & Up)



Hands-On Equations provides an intuitive and successful introduction to algebraic linear equations. See how $4x + 3 = 3x + 9$ becomes child's play!

- C-1010: Class Set of Hands-On Equations for 10 Students. **\$145**
- C-1020: Class Set of Hands-On Equations for 20 Students. **\$195**
- C-1030: Class Set of Hands-On Equations for 30 Students. **\$245**
- S-1000: The Hands-On Equations Learning System. **\$34.95**

Hands-On Equations® Fractions (Grades 5 & Up)



Hands-On Equations Fractions provides a concrete introduction to fractional linear equations. Demystify $\frac{2}{3}y + 3 = \frac{1}{6}y + 12$ for your 5th graders and up!

- HF-C1010: Class Set of HOE Fractions for 10 Students. **\$94.50**
- HF-C1020: Class Set of HOE Fractions for 20 Students. **\$159.50**
- HF-C1030: Class Set of HOE Fractions for 30 Students. **\$224.50**
- HF-1000: The HOE Fractions Learning System. **\$29.50**

Developing Fractions Sense® A (Grade 3)



This program consists of 32 short lessons and 5 enrichment lessons. Fraction blocks, rectangular grids, and number lines are used to provide students with a strong foundation for learning the grade 3 CCSS fraction standards.

- DFS-C1010A: Developing Fractions Sense A for 10 Students. **\$65**
- DFS-C1020A: Developing Fractions Sense A for 20 Students. **\$120**
- DFS-C1030A: Developing Fractions Sense A for 30 Students. **\$175**
- DFS-1000A: Developing Fractions Sense A Teacher Set. **\$9.95**

Developing Fractions Sense® B (Grade 4)



This program consists of 45 lessons. Students are provided with a concrete or pictorial introduction to the grade 4 CCSS fraction standards prior to being shown arithmetic approaches. There is a special focus on benchmark fractions.

- DFS-C1010B: Developing Fractions Sense B for 10 Students. **\$70**
- DFS-C1020B: Developing Fractions Sense B for 20 Students. **\$130**
- DFS-C1030B: Developing Fractions Sense B for 30 Students. **\$190**
- DFS-1000B: Developing Fractions Sense B Teacher Set. **\$10.75**

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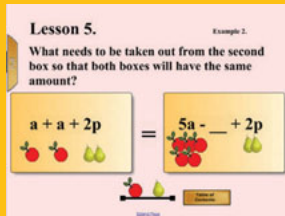
Developing Fractions Sense® C (Grade 5)



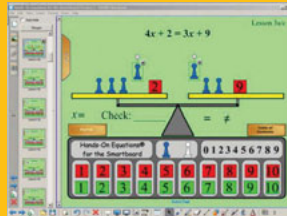
This program consists of 46 short lessons and 3 enrichment lessons. All of the grade 5 CCSS fraction standards are introduced via fraction blocks or rectangular grids. There is a special focus on subtracting mixed fractions using addition and on fraction multiplication.

- DFS-C1010C: Developing Fractions Sense C for 10 Students. **\$75**
- DFS-C1020C: Developing Fractions Sense C for 20 Students. **\$140**
- DFS-C1030C: Developing Fractions Sense C for 30 Students. **\$205**
- DFS-1000C: Developing Fractions Sense C Teacher Set. **\$11.50**

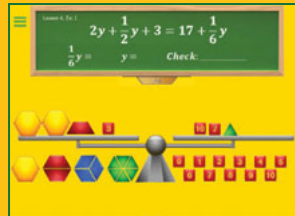
Early Algebra for the SMART Board



Hands-On Equations® for the SMART Board



Hands-On Equations® Fractions for the SMART Board



HOE Introductory Verbal Problems Workbook



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The same powerful learning system in the palm of your hand!



Dr. Henry Borenson
Inventor of Hands-On Equations®

"There is no longer any reason for a student to experience frustration learning essential algebraic concepts. You can provide your students with the gift of understanding. Our hands-on workshops will empower you to visually simplify abstract algebraic concepts."



HANDS-ON EQUATIONS®

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