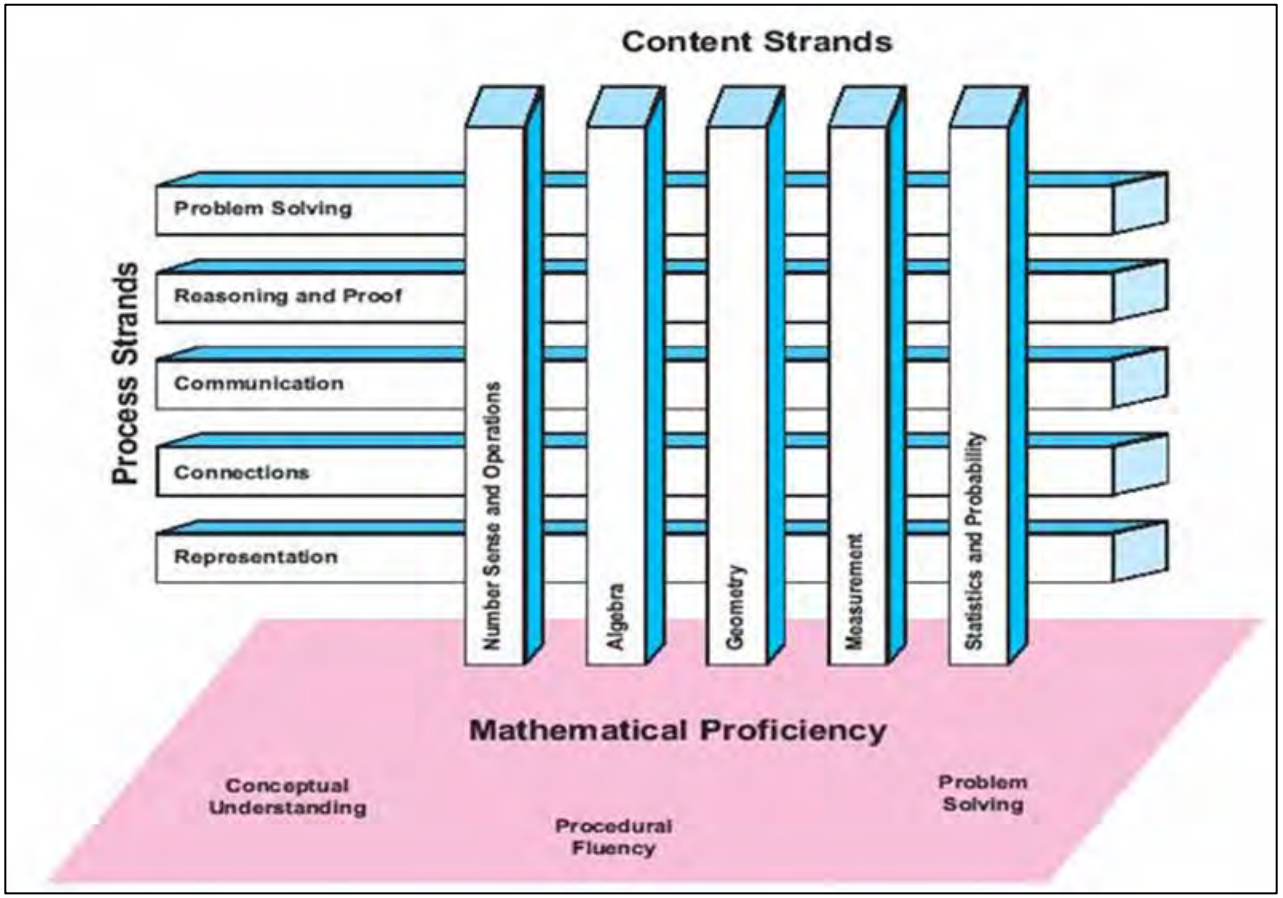
COMMON CORE
STATE STANDARDS INITIATIVE
PREPARING AMERICA'S STUDENTS FOR COLLEGE & CAREER

Bringing the Common Core to Life

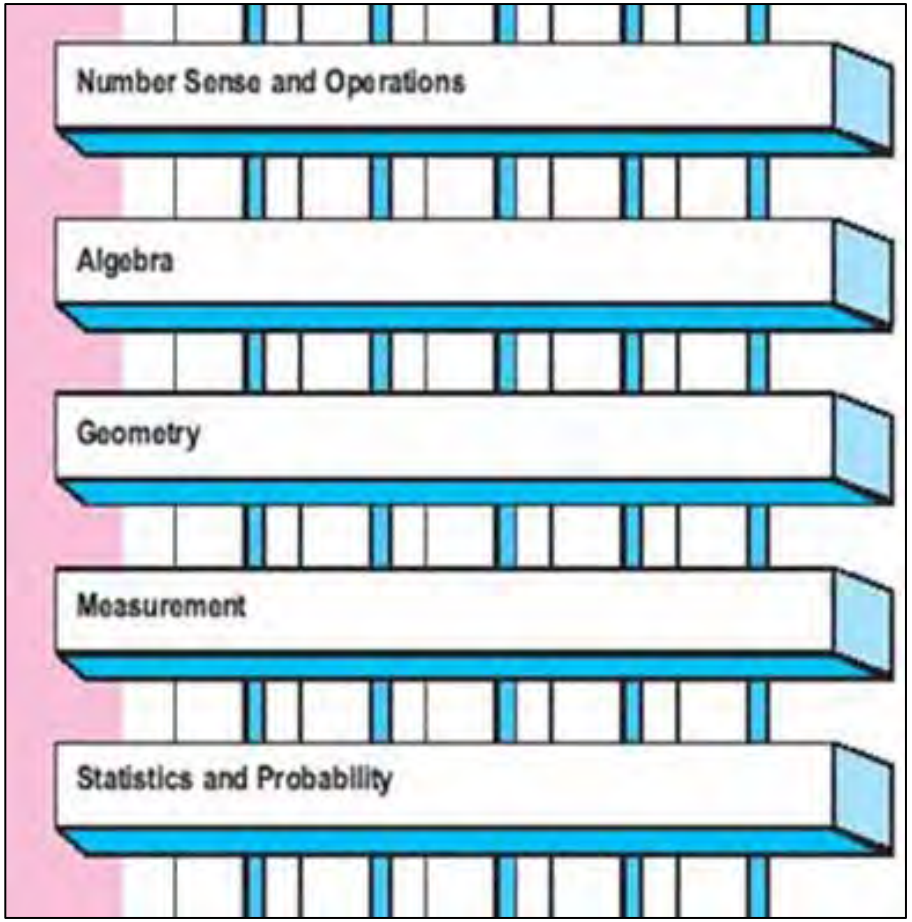
April 28, 2011

NYS 2005 Mathematics Standards

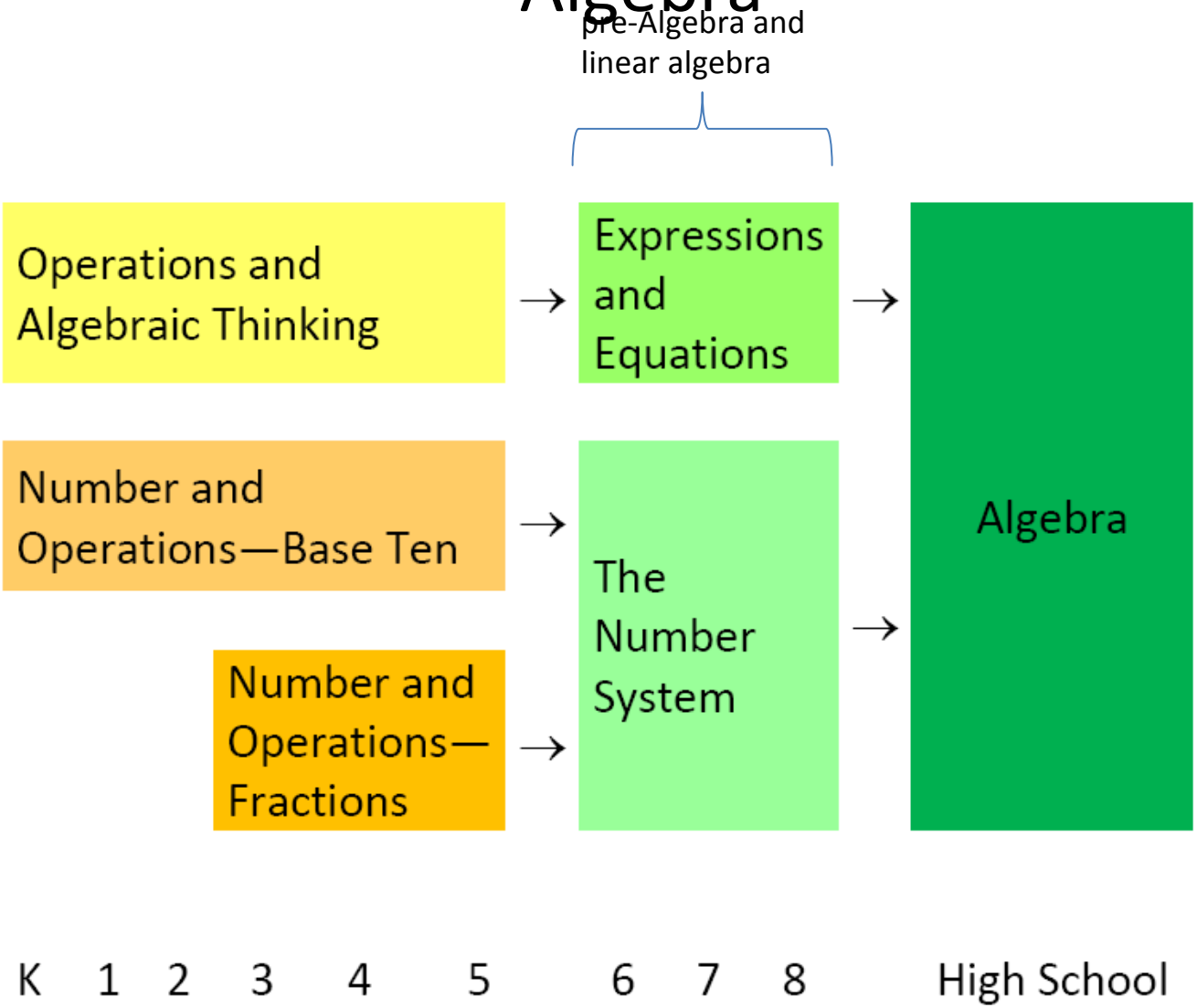


Source: http://www.p12.nysed.gov/ciai/mst/math/standards/revisedlintro.html#The%20Five%20Content%20Strands

Shopping Aisles



Major Flows Leading to Algebra



Fractions

6.N.17 Multiply and divide fractions with unlike denominators.

4.NF

4. Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.

   a. Understand a fraction *a/b* as a multiple of 1/*b*. *For example, use a visual fraction model to represent 5/4 as the product 5 × (1/4), recording the conclusion by the equation 5/4 = 5 × (1/4).*

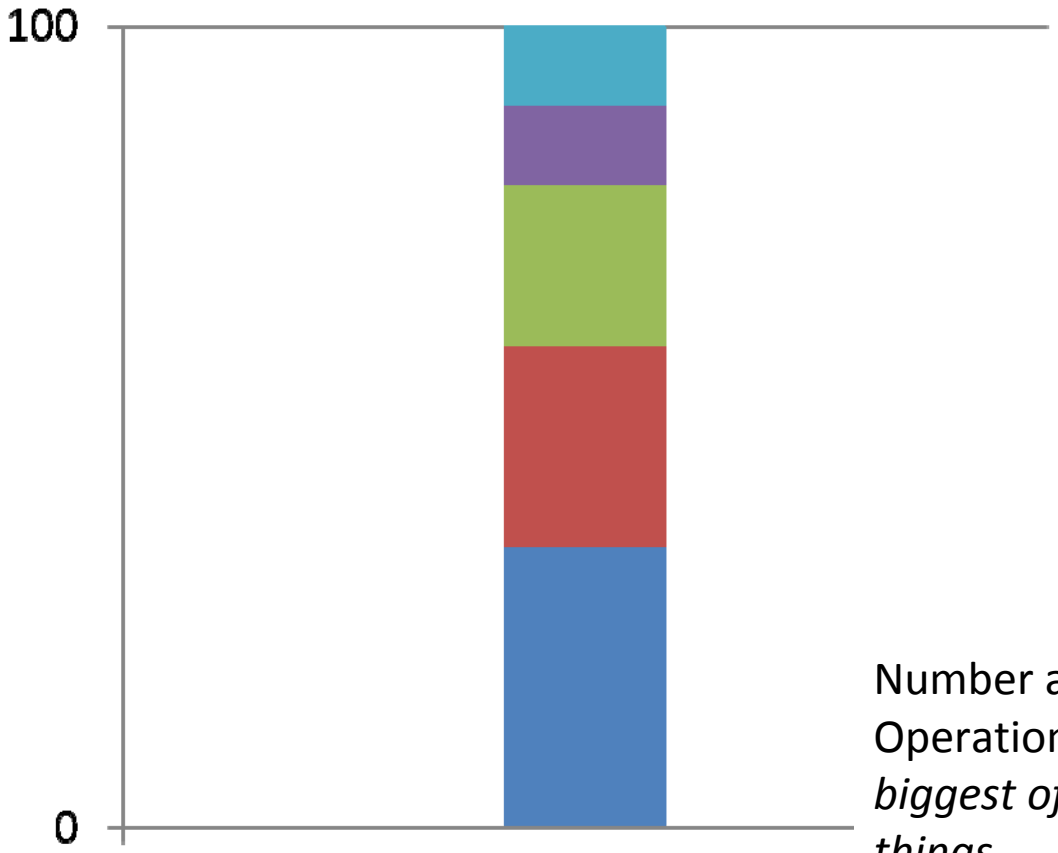
   b. Understand a multiple of *a/b* as a multiple of 1/*b*, and use this understanding to multiply a fraction by a whole number. *For example, use a visual fraction model to express 3 × (2/5) as 6 × (1/5), recognizing this product as 6/5. (In general, n × (a/b) = (n × a)/b.)*

   c. Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. *For example, if each person at a party will eat 3/8 of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?*

- Key moments in the curriculum (like 4.NF.4) demand that we slow down and devote more time to allow for reasoning / thinking / discussing as well as the necessary hard work and practice.
- Demands we revamp the mile-wide, inch-deep approach in curriculum and textbooks

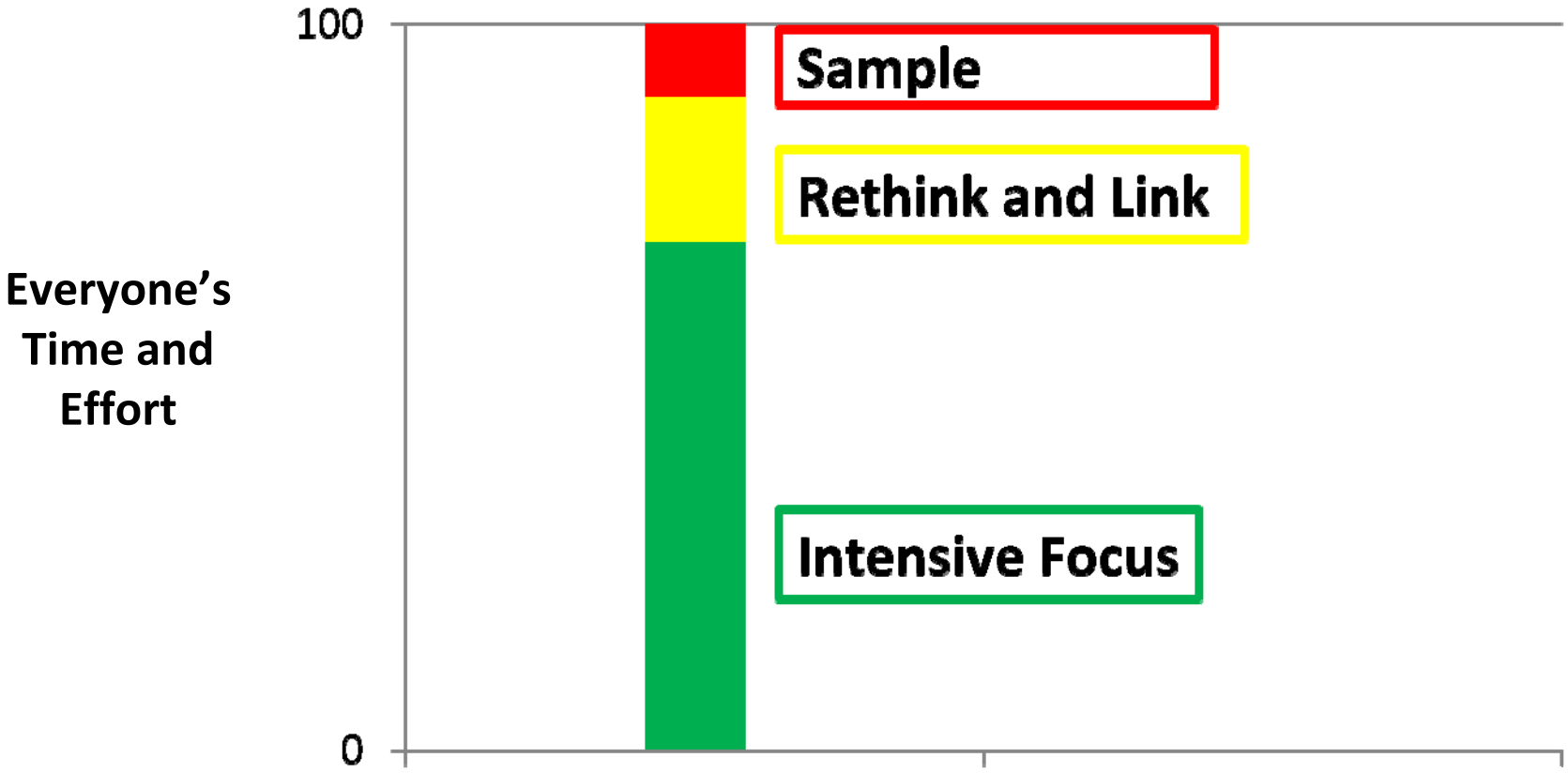
Focus in K-5: The shopping aisle version

Everyone's Time and Effort



Number and Operations is *biggest of 5 things*

Focus in K-5: The new version



	10% Sample	20% Rethink and Link	70% Intensive Focus
K-2 examples	• Patterns • Statistics/Data • Probability • Estimating computations	• Geometry and measurement	• Addition and subtraction concepts, skills, and problem solving
3-5 examples	• Patterns • Statistics/Data • Probability	• Area, volume	• Multiplication and division of whole numbers and fractions, balance of concepts, skills, problem solving
6-8 examples	• Statistics	• Quantitative relationships and functions	• Proportional reasoning and linearity • Algebra • Geometric measurement

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