

Fractions

Grade 4 Mathematics



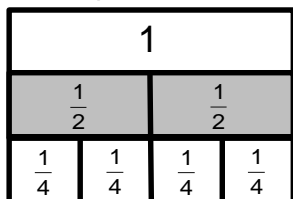
Long Beach Unified School District
K-5 Math Curriculum Office
Teacher Resource Center
1299 E. 32nd St., Room D
Signal Hill, CA 90755

Grade 4 students use visual fraction models to see how size of parts differ even though two fractions are the same size.

What's In?

What's Out?

Model equivalent fractions



Building conceptual understanding with manipulatives

~~Learning the steps, algorithm, without conceptual understanding~~

Write equivalent fractions

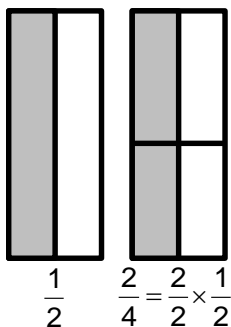
$$\frac{1}{2} = \frac{2}{4}$$

Explaining why the answer is correct and how they arrived at the answer

~~Giving the "number" as the correct answer and moving on without explanations~~

Relate equivalent fractions

The area models below show fractions equivalent to $\frac{1}{2}$.



Understanding there are multiple strategies to arrive at a solution and attempting to solve a problem in more than one way

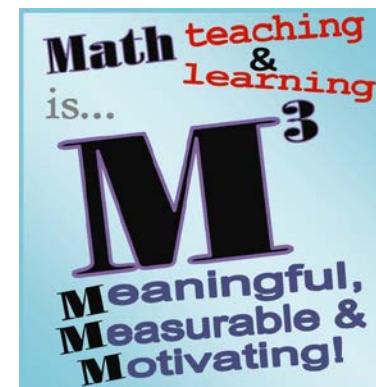
~~Thinking there is only one method to finding a solution to a problem~~

Applying mathematical understandings to new situations in order to solve a problem

~~Applying their understanding of mathematical concepts to only similar problems to find a solution~~

When a horizontal line is drawn through the center of the first model to obtain the second, students see that the number of equal parts are doubled yet the parts are smaller. They see that fourths are smaller than halves.

Math Tools and Strategies Your Child Will Use in Grade 4



This brochure illustrates mathematical strategies students will be learning throughout the school year. Additional Parent Resources can be found at www.lbschools.net under Mathematics and Family Resources.

Pamela Seki
Assistant Superintendent of Curriculum, Instruction and Professional Development

Lisa Dougan
K - 5 Mathematics Curriculum Leader

