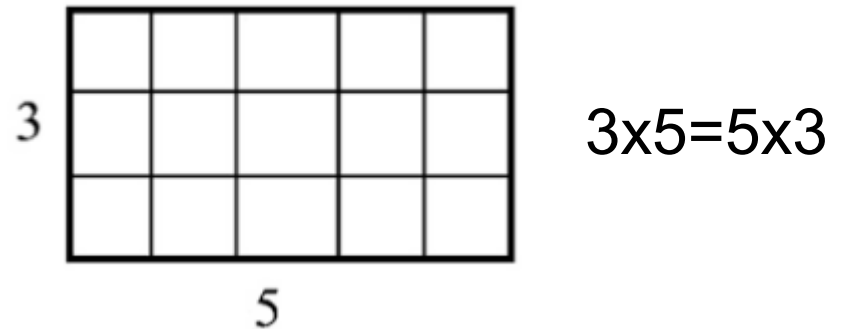
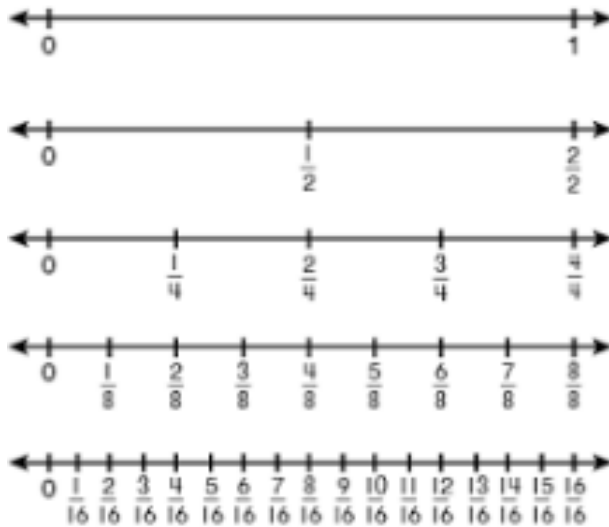


What to expect in Math-Third Grade



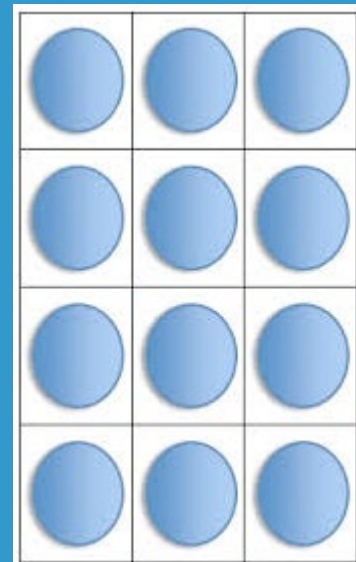
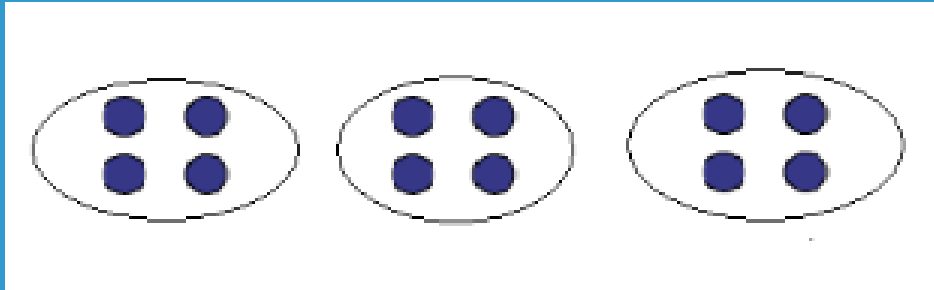
Math Mornings
November 27, 2018
8:45-9:30

Josh Rosen
Victoria Coren

Third graders will...

develop an understanding of multiplication and division involving equal group, arrays, and area models

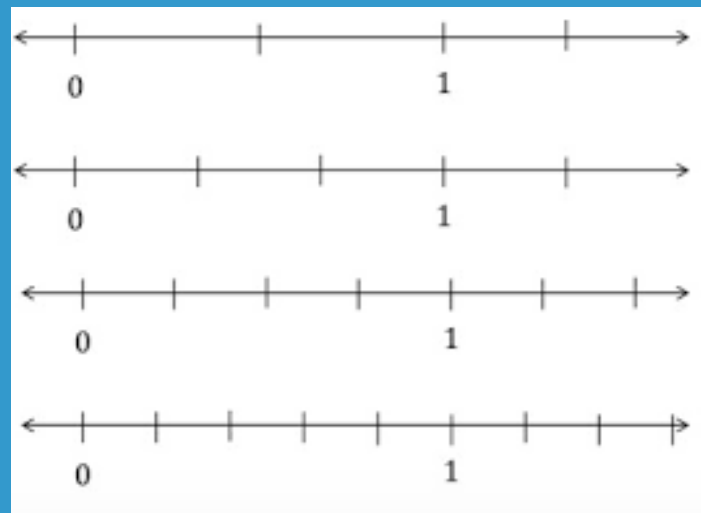
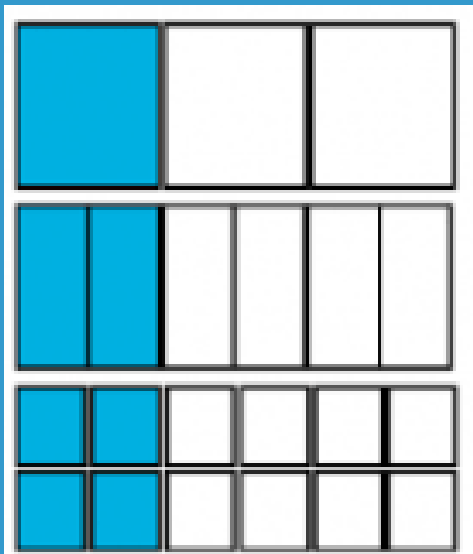
(Fluency of multiplication facts by end of the year is expected)



$$4 \times 3 = 3 \times 4$$

and...

will develop an understanding of fractions as parts of a whole and as numbers themselves, be able to use multiple models (including number lines) to represent them, and be able to compare fractions with like numerators and like denominators. They will begin to develop an understanding of equivalence..



Word Problems-Take a close look

What is similar and what is different?

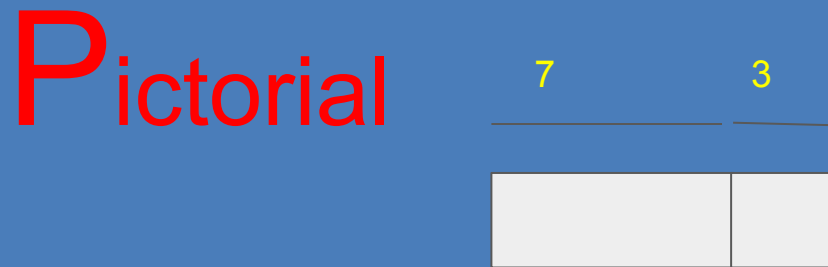
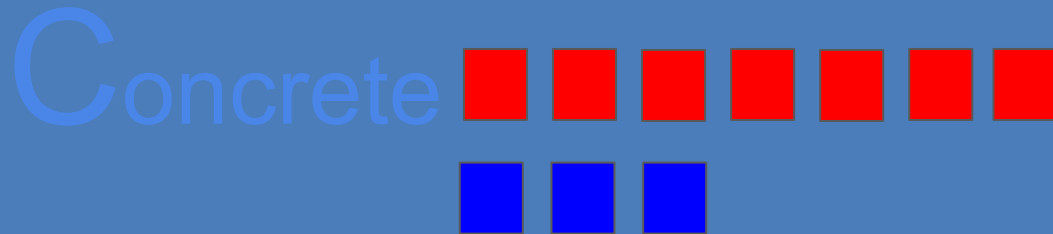
Mike has 84 marbles.

His friend Alice has 26 more marbles than Mike. How many marbles does Alice have?

Mike has 84 marbles.

He has 26 more marbles than his friend Alice. How many marbles does Alice have?

Some theory to guide us---



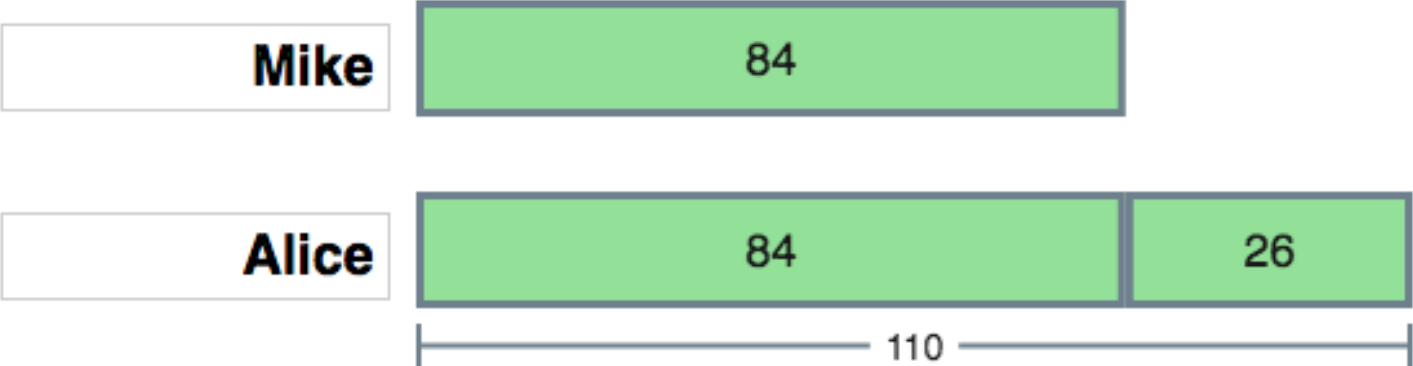
Abstract

$$7+3=10$$

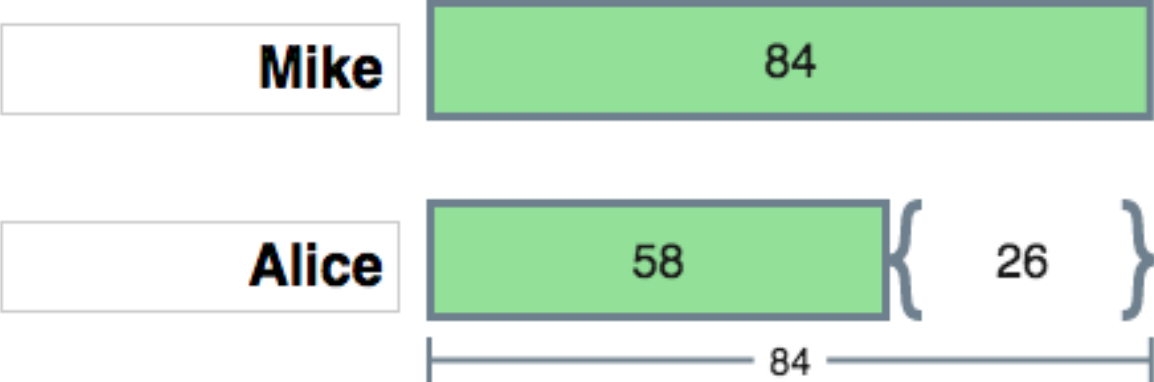


Jerome Bruner's
learning theory

Problem 1

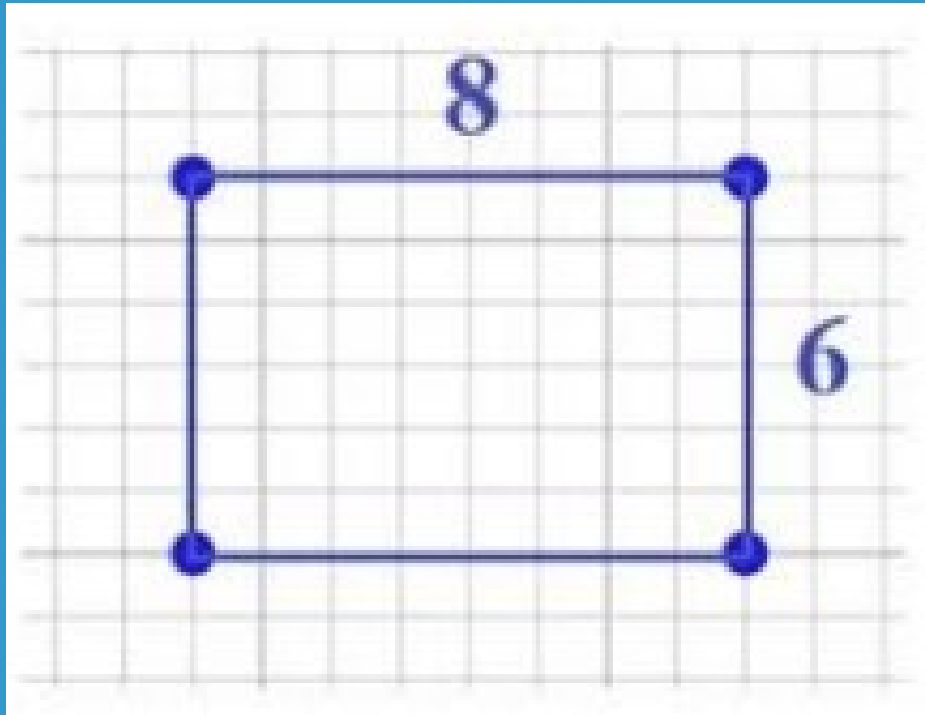


Problem 2



and...

students will recognize area as an attribute of two dimensional shapes, and will find the area of rectangular figures..



Mrs. Miglio is exploring a new garden box design. How can we find the area of this shape?

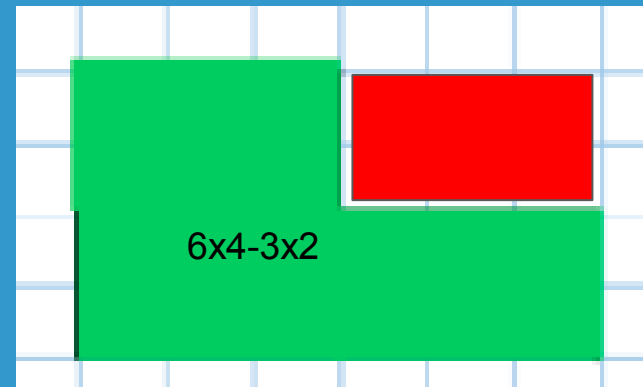
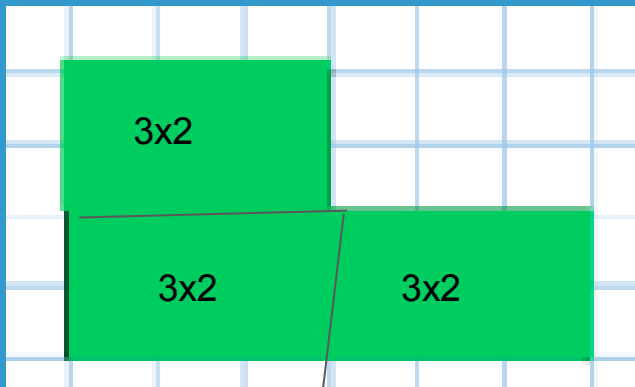
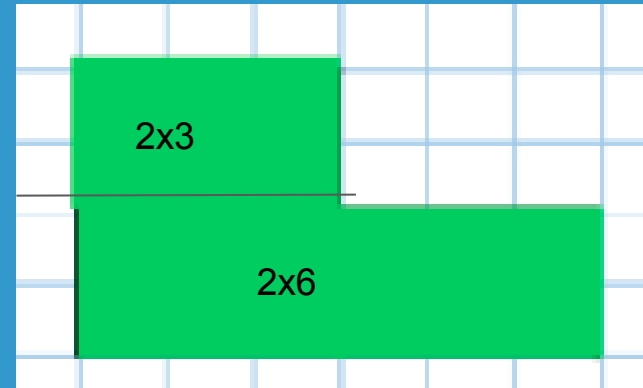
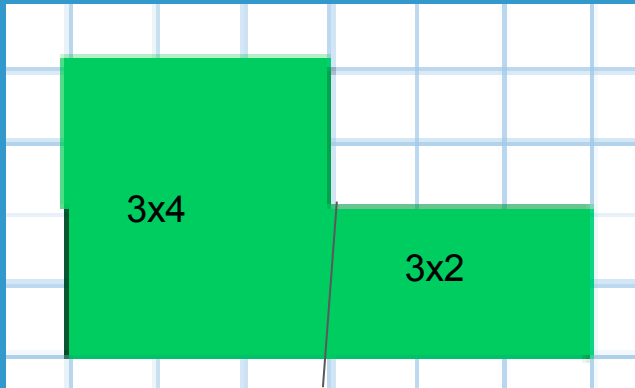


Equations:

Challenge yourself to find as many methods as you can to find the area of this shape.

You are each going to get a sheet of paper with 4 of the same shape. Two shapes on one side and two on the other. Try to use what you know about area to find different ways to solve the problem.

How did we solve it?

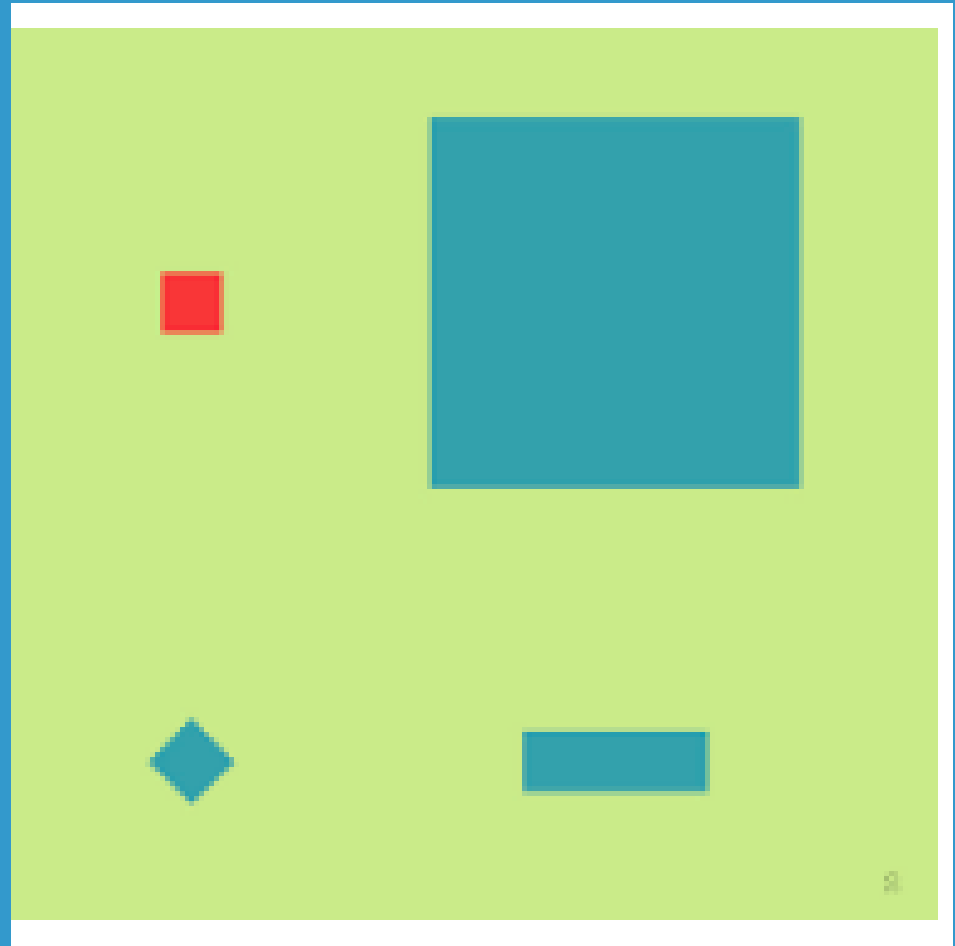


and..

will describe and analyze two dimensional shapes..

Which one doesn't belong?

by Christopher Danielson



What do vibrant mathematics classrooms look like?

Students feeling comfortable taking risks

Students collaborating

Teachers encouraging perseverance

Students justifying their ideas and listening to the ideas of others

Teachers encouraging a wide range of possible methods for solving problems

Number Talks

*Designed to promote fluency and mathematical reasoning

$$7+3$$

$$3+5+7$$

$$7+5+3$$

$$6+5+4$$

$$3+6+7$$

$$2+9+8$$

Ways to support Math Learning at Home

Mathematize your World!!--Notice math in everyday life

Play Math Games like Salute, solve puzzles like KenKen

Be positive about math! Your attitudes have a big impact!

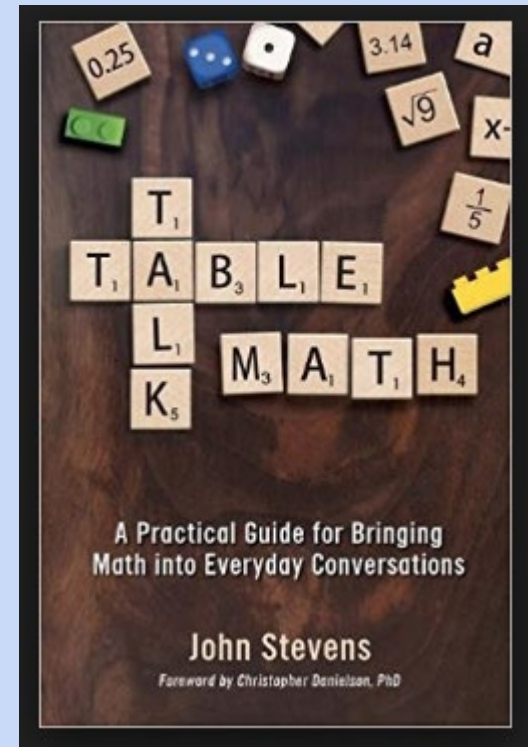
Dreambox

Math Resources:

- *Go to Springhurst Website
- *Click on Academics Tab
- *Click on Math Resources

You will find a wealth of resources to better understand the math we are doing in school!!

Other Resources



bedtimemath.org

Thank you for coming!!

rosenj@dfsd.org