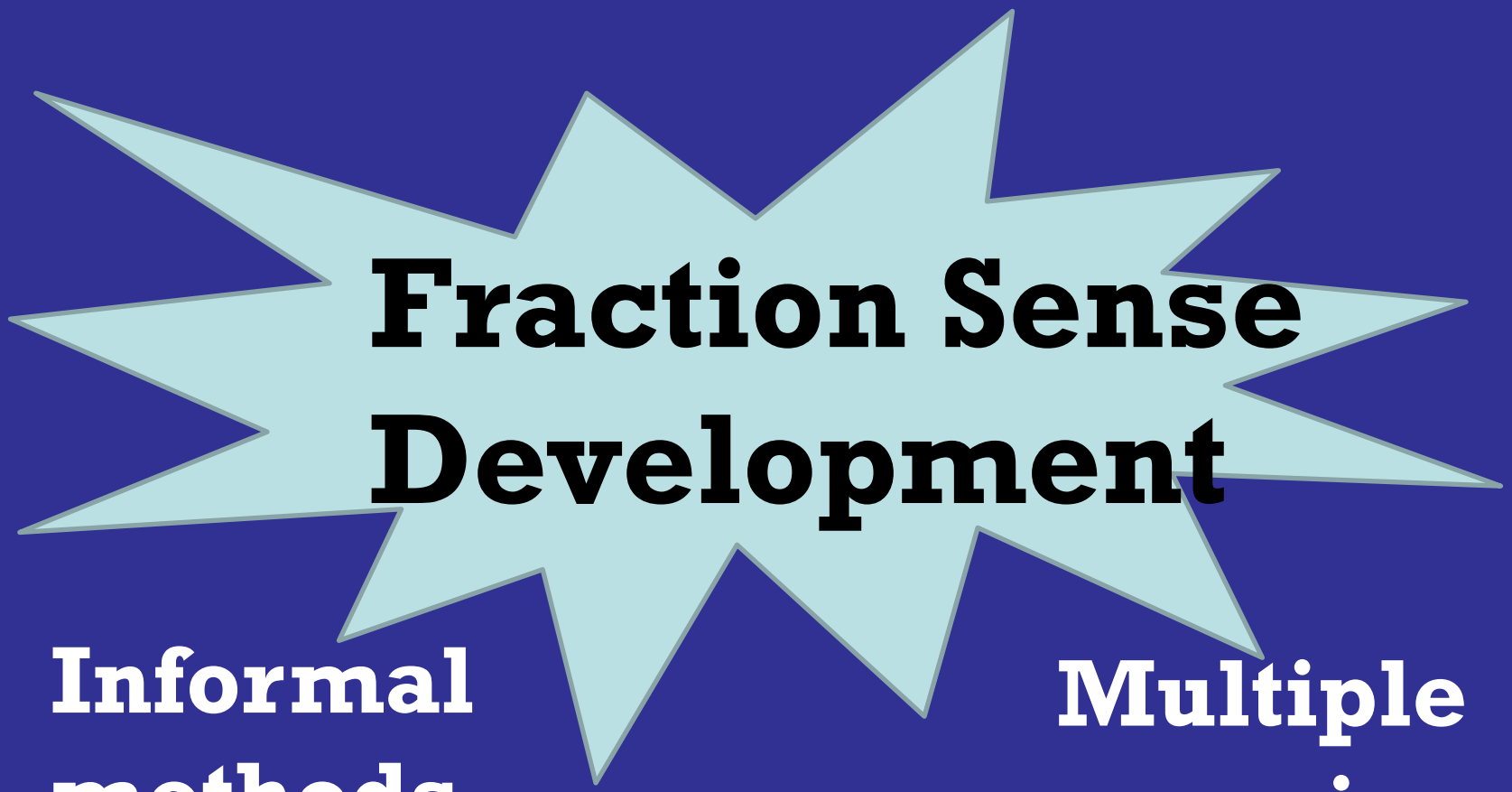
Fabulous Fractions

CAMT 2015

Developing Long Term Memory Paths

Use manipulatives to model before procedures.

Get students talking fractions!


Context
Models
Fraction Sense Development
Informal methods
Multiple meanings
Estimate

Model with Manipulatives

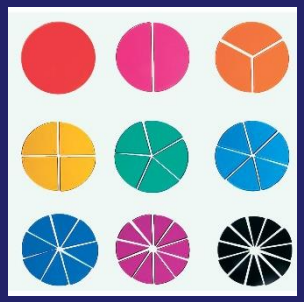
Area Models

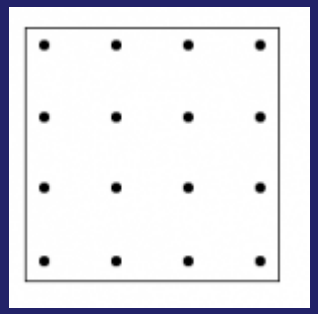
Length Models

Set Models

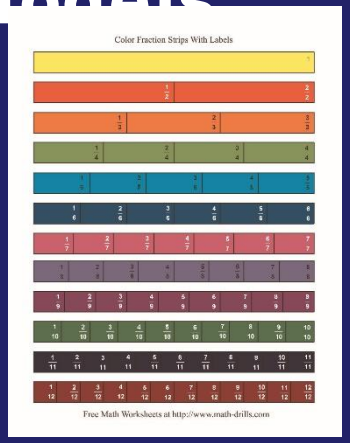
Model with Manipulatives

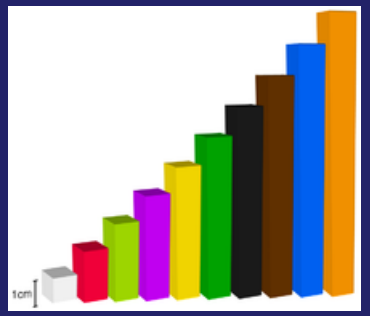
Area Models

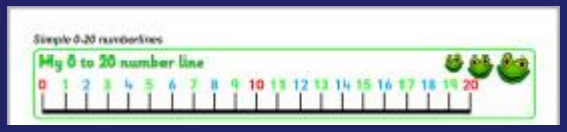




Length Models







Set Models

Foundation

(2nd – 4th Grades)

- Meaning of fractions
- Models of fractions
- Unit fractions
- Equivalence & Comparing
- Benchmarks & estimation

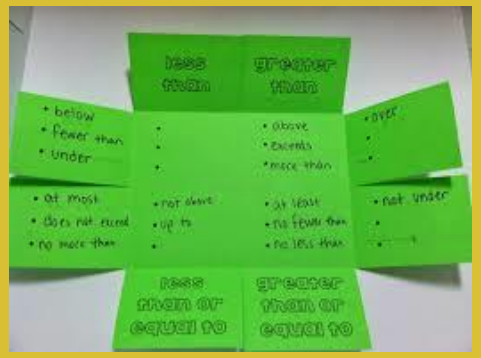
Operations

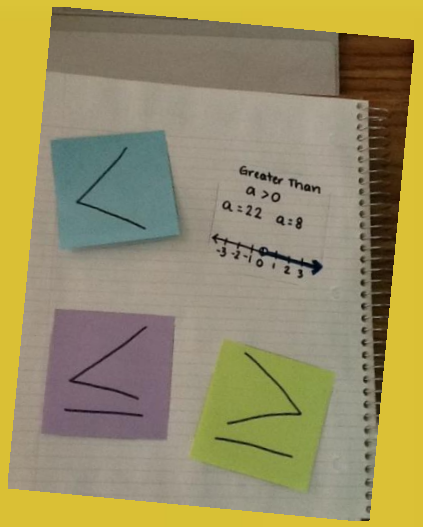
(4th – 7th Grades)

- Add
- Subtract
- Multiply
- Divide

Fractions are Fun!

- Foldables





- Games
- Act out fractions
- Get students out of their desks when possible.
- Technology

Fraction Pieces

Important tool

for

3rd, 4th, 5th

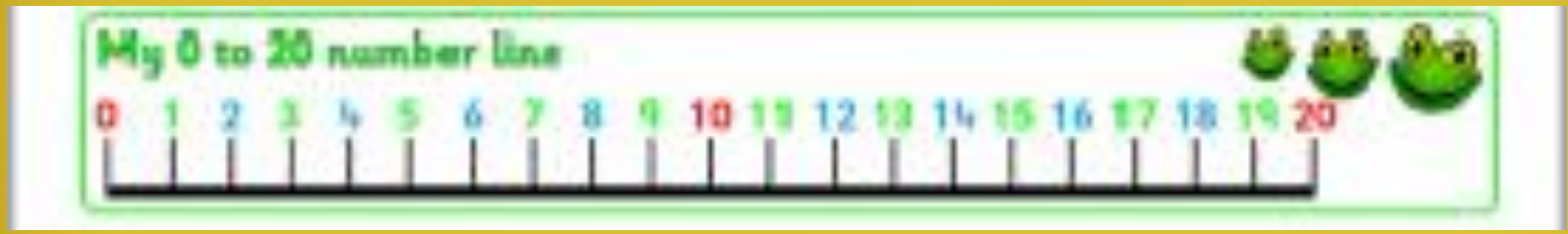
grade students

Fraction Vocabulary

The numerator counts.

The denominator tells what is being counted.

Number Lines



Number lines are critical
for understanding fractions
and for mastery
of the TEKS.

Use your fraction pieces to model.

Grandma is making cornbread and gingerbread for dinner. She needs $1\frac{5}{8}$ cups of buttermilk for one recipe and $1\frac{1}{8}$ cups for the other recipe. How much buttermilk does she need for both recipes?

Use two-color counters to model.

Xavier works in a plant nursery and creates flower arrangements in pots of different sizes. One pot needs $\frac{3}{8}$ cubic feet of dirt and another one needs $\frac{1}{4}$ cubic feet of dirt. How much dirt will Xavier need for both pots?

Use circle fractions to model.

Wesley filled 5 glasses with $\frac{2}{3}$ liter of soda in each glass. How much soda did Wesley use?

Use a number line to model this problem.

Maria is going to have a birthday party. Her mom orders 6 pints of ice cream from Mitch and Bob's Ice Cream Factory. If she serves $\frac{1}{4}$ of a pint of ice cream to each guest, how many guests can be served?

Mathematically Speaking!

Great strategy

to involve ELL students.

Pair up a stronger with a weaker student and allow the stronger student to first explain how to solve the problem using the given words.