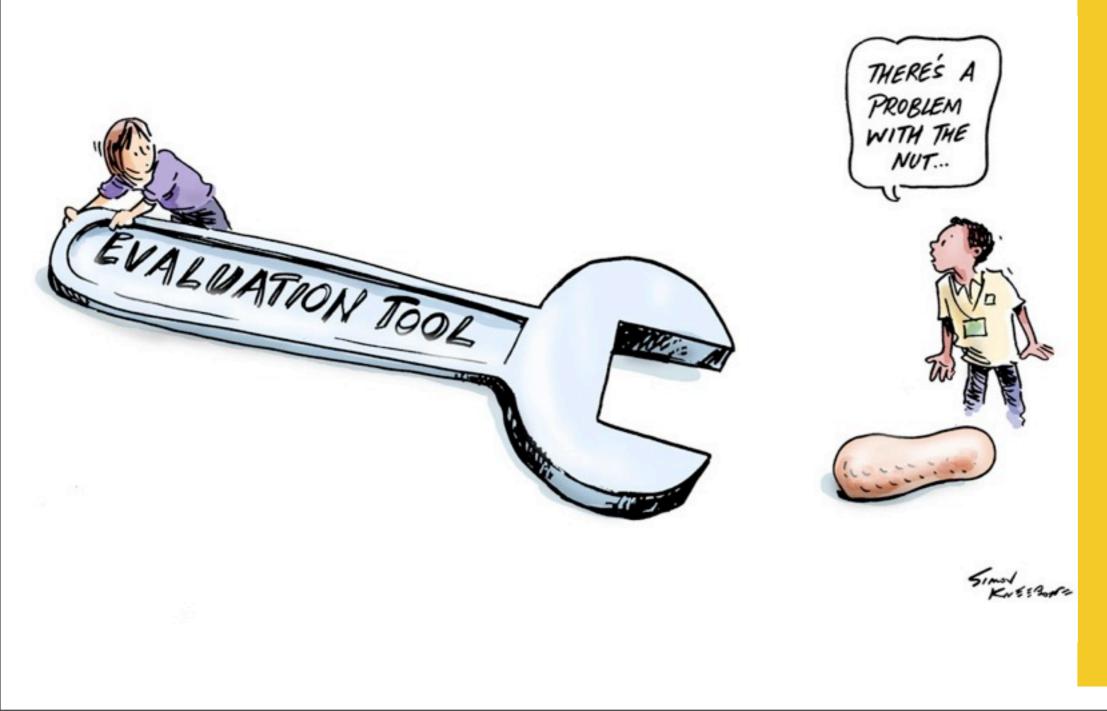
## Assessment and evaluation in a cooperative learning community



Saturday, April 26, 14

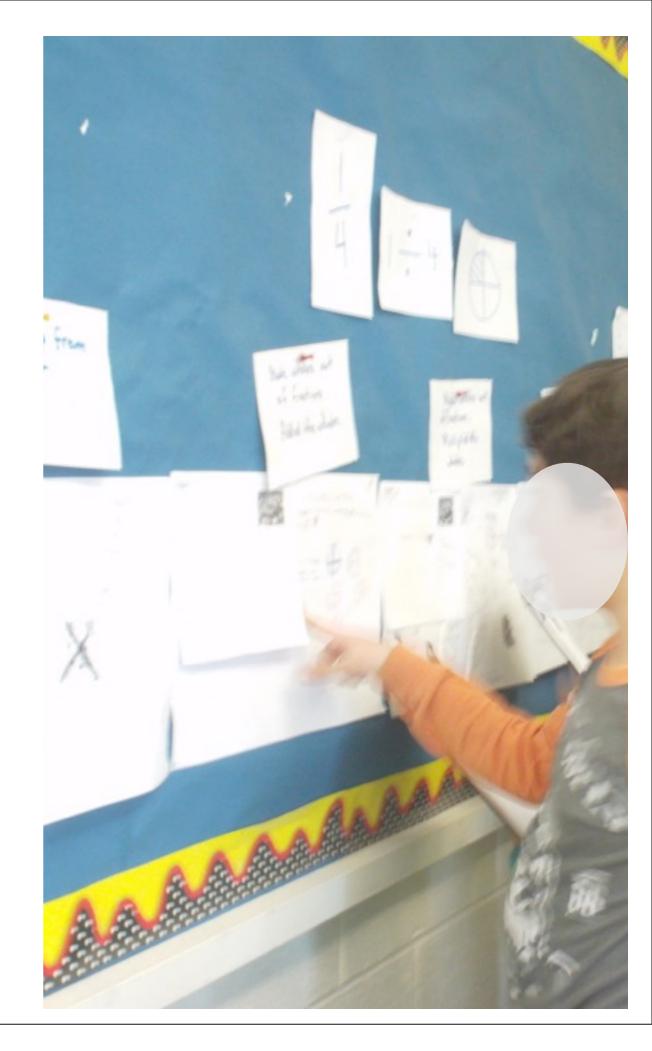
#### Grade 3/4

- 24 students
- 8 IEPs
- Middle level LOI
- Amazing parents
- 1 Twitter feed
- 1 Youtube channel



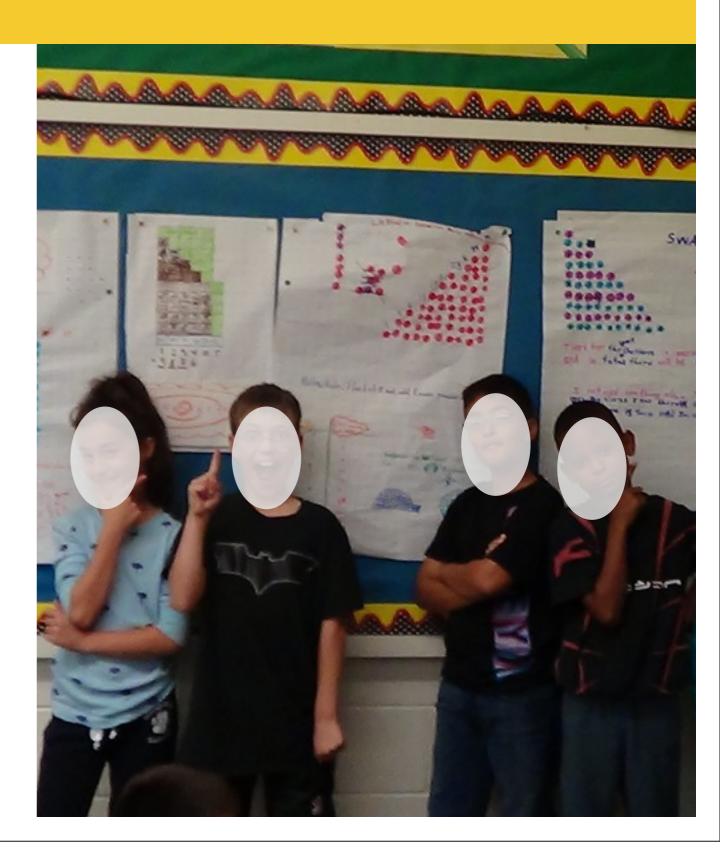
# Learning through problem solving

Intentionally public about sharing our learning



#### Group work - we all achieve

 Grade level standards - a good place to start.



#### Curriculum

🕅 Ontario

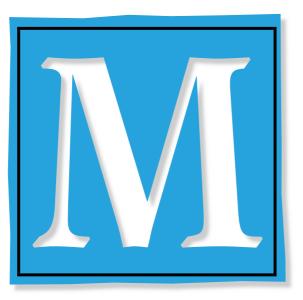
Ministry of Education

REVISED

The Ontario Curriculum Grades 1-8

#### **Mathematics**

- Begin here always.
- Visit often.



2005

#### Group work - individual learning

To accommodate
 and differentiate for
 the largest number,
 we learn together.

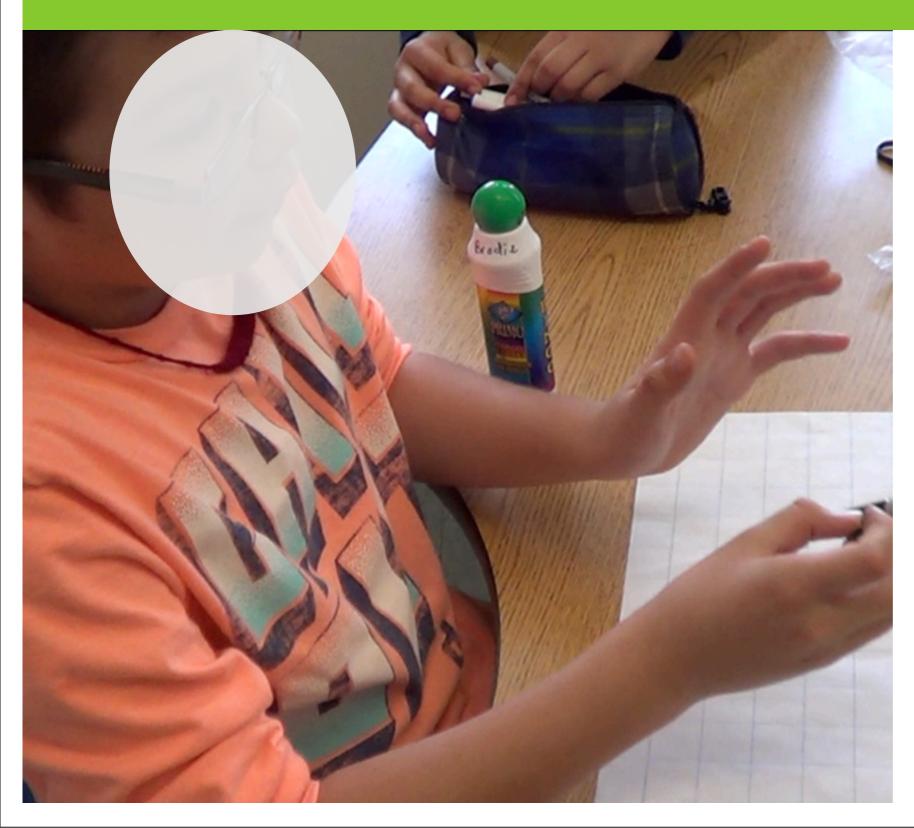


#### Interdependence

 Good questions are perhaps better than good answers.



## If you don't know...ask



Observation

 is good
 enough for
 research
 scientists,
 why not
 teachers?

#### Assessment ≠ Evaluation

Saturday, April 26, 14

#### Evaluation vs. Assessment

- Evaluation from the root word value.
- When we evaluate,
   we are assigning a
   value to a body of
   work or learning in
   the form of a mark.

• Assessment is the process of gathering information that accurately reflects how well a student is achieving the curriculum expectations in a subject or course. From Growing Success

#### **Evaluation vs. Assessment**

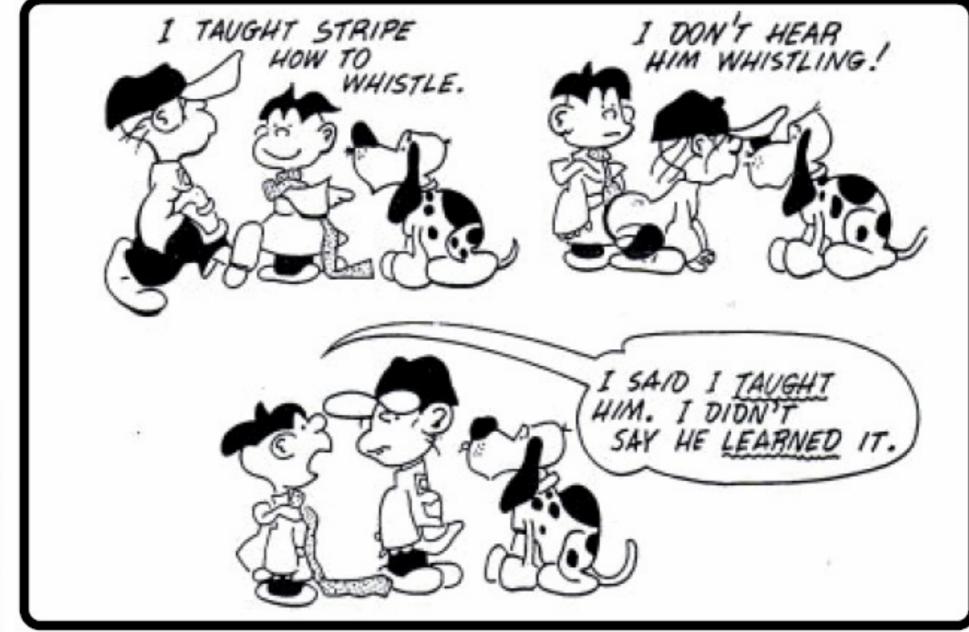
 The primary purpose of assessment is to improve student learning.

From Growing Success

## What do we do to accomplish this in a cooperative setting?

## Example 1

#### Assessment for Learning



Source unknown.)

#### Finding perimeter given a fixed area

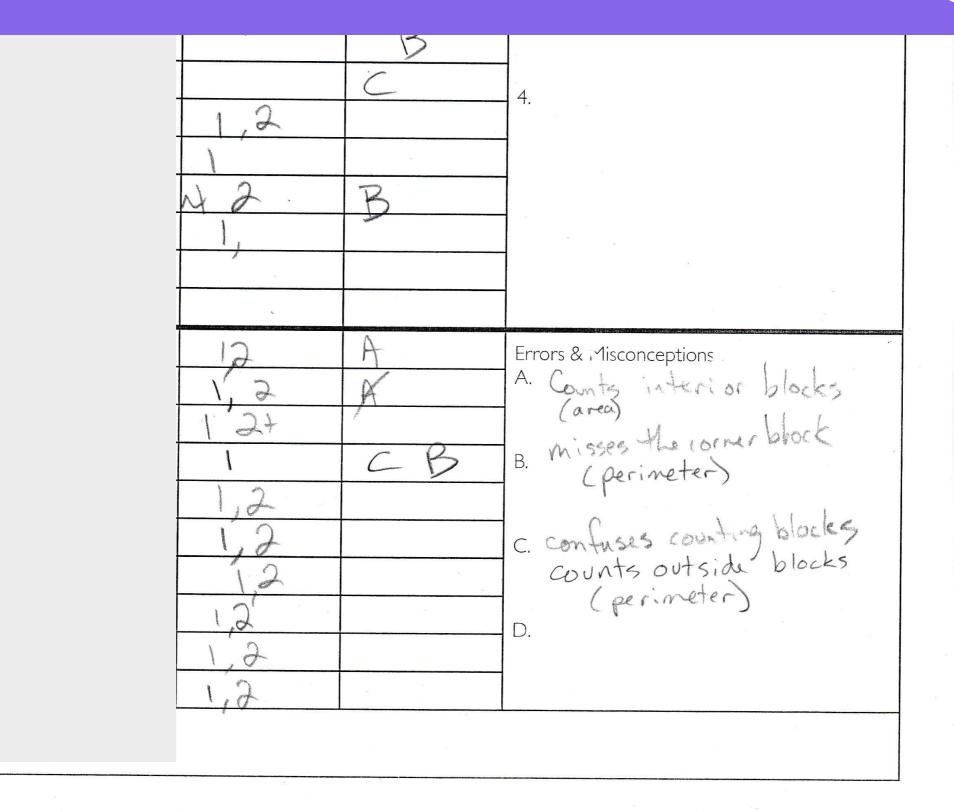


### Assessment for Learning

			A DOCODING THE TOP LEG	u muk
	Grade: 34 Unit Title: 7 Task/Question: Per	rimeter dA.	rea	Curriculum Expectations: 35- peri - statunits area - grid, arrays
		H fo cui	be array fixed areas. find diffperi	43 - relationship blown area/peri - meaning ful probs distinguish peri/atea
а. К	Students Names	Student's Thinking	Errors & Misconceptions	Observations & Anecdotal Notes
×.,		1,2		Student's Thinking 1. ident: fres perineter
	-	1,2		2. identifies area
		3	B	3.
-		¥	B	
	-	1,2		4.
-	- 	NZ.	B	
-	· ·			
-			Δ	a transmission of the standing of the Constant of the structure of the State instruments in while and a being a first for structure constant as symptoms and while structure constant as symptoms and the structure constant as symptoms are

Student's Thinking

#### Assessment for Learning

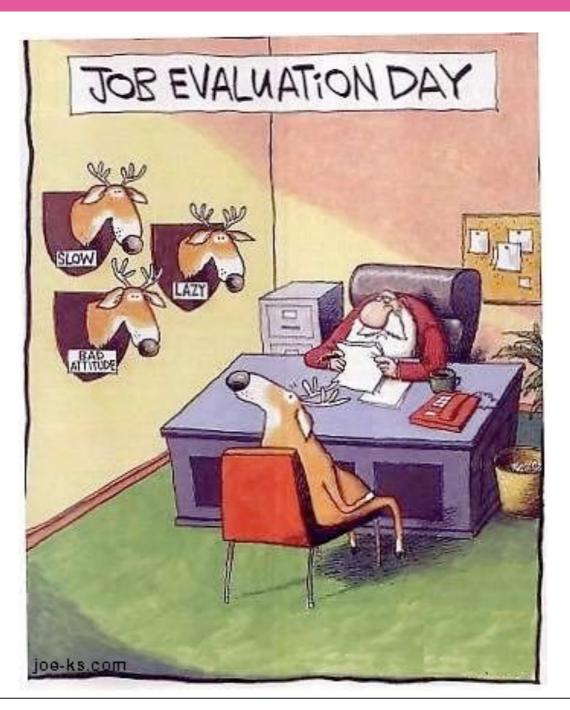


#### Who are we assessing?

- The students?
- Be precise. What exactly do we know?
- The teacher?
- Be honest with yourself. Were you effective at reaching everyone?

### Example 2

#### Assessment as Learning

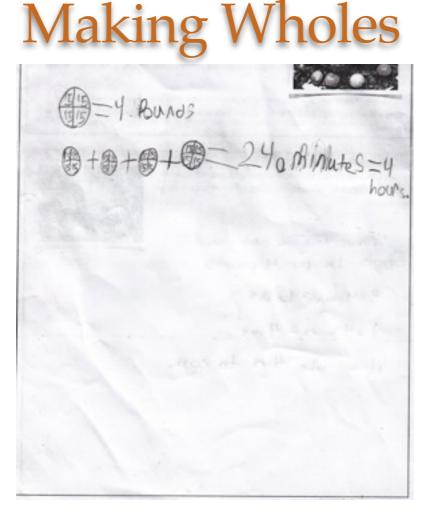


#### Bansho

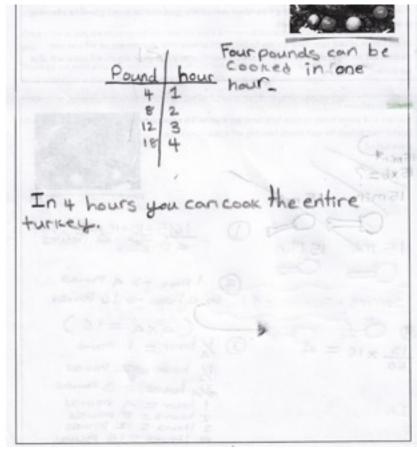


#### Bansho Basics

Repea	ted A	Add	ling
Lanog 1	15 min t 15 min		
	15 min 15 min 15 min		
++++++++++++++++++++++++++++++++++++++	15 min 15 min 15 min 15 min 15 min 15 min	All the	+ 15 min 15 min 15 min



Find and Use a Patterr	Find
------------------------	------



### Expanding Bansho

Repeated Adding	EB=4 BUND	g Wholes	Find and Use a	ounds can be ed in one
Parent Problem You have a 16 pound turkey to cook for a family get together. If it takes our ter hour to cook for each pound, how long will it take to cook the entire turkey? Each pound is 15 minutes. 16 Pound $\times 15 = 240$ minutes $240 \div 60 = 4$ hours.		12	ong will it take to cook the	

Multiplying Minutes Fractions into Decimals

#### Summary of Learning

#### F R A C T I O N T A S K S Solving Problems Together

Parents and students learn from each other

Not a Worksheet Publications

Issue Nº 2 Winter 2014

1







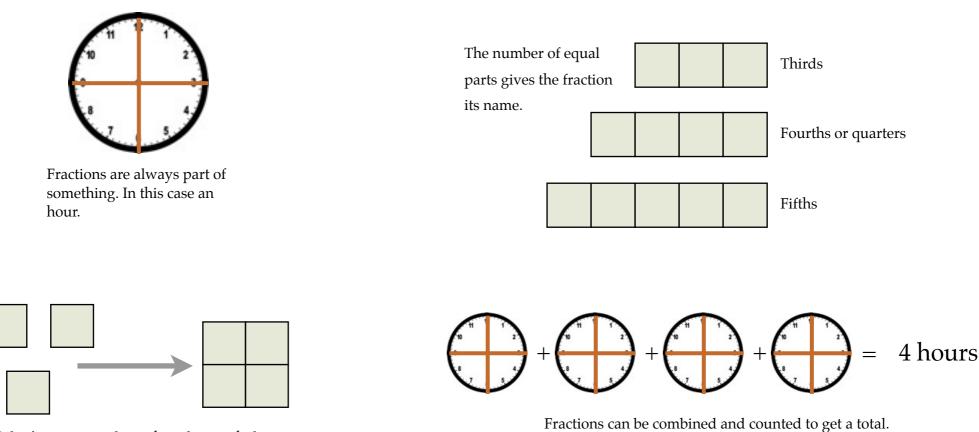
lain Brodie, 2014

### Summary of Learning

#### F R A C T I O N T A S K S

#### Summary of the Mathematics Concepts

Building learning communities

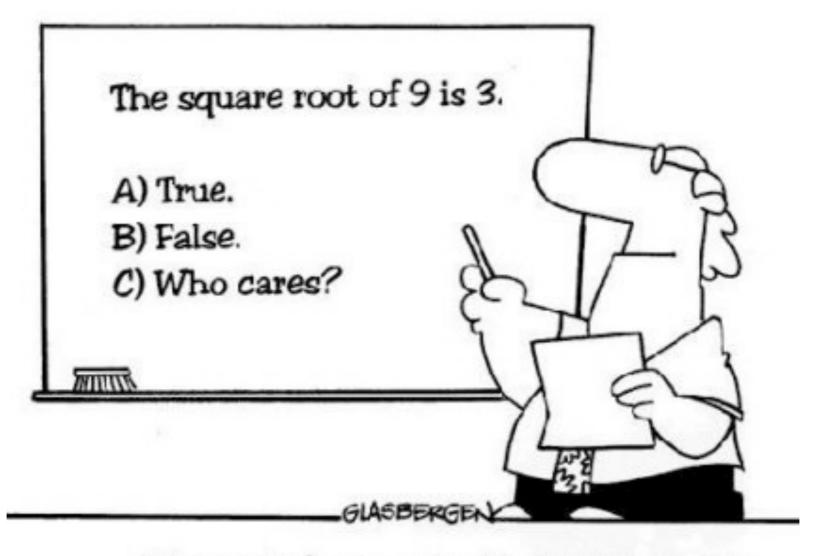


Like fractions can be gathered into wholes.

Fractions can be combined and counted to get a tota They can be added and multiplied, too.

### Example 3

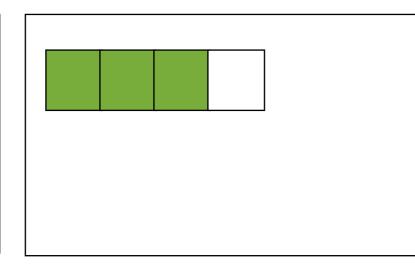
#### Assessment of Learning

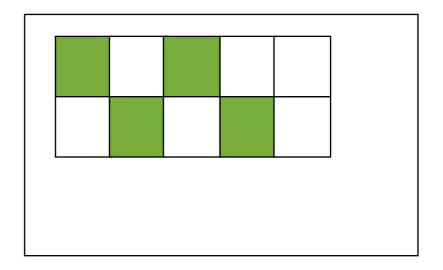


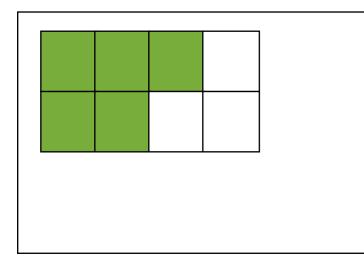
Many students actually look forward to Mr. Atwadder's math tests.

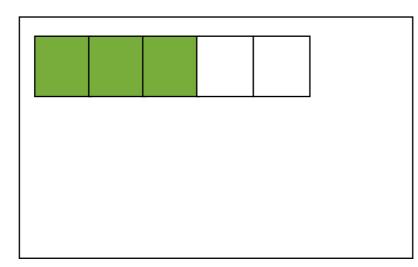
Name these fractions. Gr. 3 <u>may</u> use words.

Gr. 4 <u>must</u> use numbers.

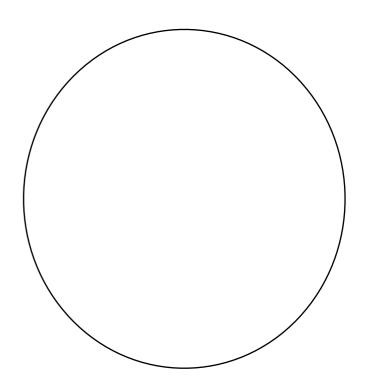






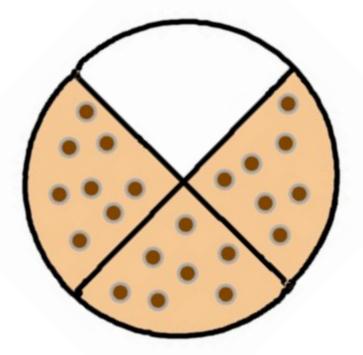


Divide this circle into a fraction. Explain your fraction.



Four friends want to share the rest of this pizza equally.

Explain how could they do this.



Famous baseball coach, Yogi Berra, was hungry after a game and went to order a pizza. The pizza chef asked, ''Do you want me to cut your pizza into 8 or 12 pieces, Mr. Berra?'' Yogi replied, ''Better cut it into 8. I'm not all that hungry.'' Explain what Mr. Berra does not understand about

fractions.



- Observing is good
- Questioning and talking to students is even better
- Public knowledge is shared knowledge that can be built upon
- Children can help make assessment tools

- Children are much smarter and more capable than they are given credit for
- Parents are much more valuable partners than is thought in the literature

## Thank you

