### Singapore Math Training - K-1 Number Sense

- 1. Philosophy/Strength
- Math taught in logical, step by step manner based student's prior knowledge and experiences. All concepts progress from concrete experience to a pictorial stage and finally abstract level.
- Piaget, "In order for a child to truly understand a number or concept, they must see it in a variety of ways."
- 2. Phonemic Awareness of Math
  - Learn language and concepts of math first part, part, whole/greater, less than/ patterns, etc.
  - Look and Talk experiences
- 3. Real World Math
  - "Have You Seen Any Good Math Lately?"
- 4. Number Sense an intuitive feel for numbers and their relationships
  - Frequent, meaningful exposures to language, concepts, skills from concrete, to pictorial, then abstract
  - "Today's Number"
  - "My Book of Numbers"
  - Partner Games
- 5. Think Time
  - Validate Problem Solving Variations (Number Flexiblity)
- 6. Make A Ten 10 is the benchmark of our number system
  - learn number bonds
  - count objects daily
    - money bag, class group reward
  - regroup early
  - # of day, letters in our names, kids in class, scissors in the room, siblings, people in our family, buttons on clothes, etc.
- 7. Parents should "Look and Talk" and use & count money often (teaches rote counting, one to one correspondence, multiplication/skip counting)

#### Look & Talk

#### Sample Questions:

How many cows are in the picture?

How many cats?

How many chickens?

How many are hens?

How many are roosters?

How many chicks have hatched?

How many nests?

What is on top of the fence?

What is beside the top fence?

How many dogs are in the picture?

Which animals are larger than you?

Which animal is the smallest?

Are there more dogs or cats?

What do you see at the top of the picture?

What do you see in the bottom of the

picture?

What do you see in the middle of the

picture?

Do you see any shapes? (triangles, circles,

squares or rectangles)

Do you see any patterns with the shapes?

Do you see any other patterns?

What animals have two legs?

What animals have four legs?

#### Look & Talk

#### Still More Questions:

Which stack of boxes has the most?

Which box is the largest?

Which box is in the middle?

How many cows are in the picture?

Where is the first pig?

Where is the second pig?

Where is the fourth pig?

How many girls do you see?

How many boys do you see?

How many children are there all

together?

How many baby animals do you see?

How many cubes do you see?

How many cylinders do you see?

What shapes do you see on the barn?

How many triangles? Squares?

Rectangles? Circles?

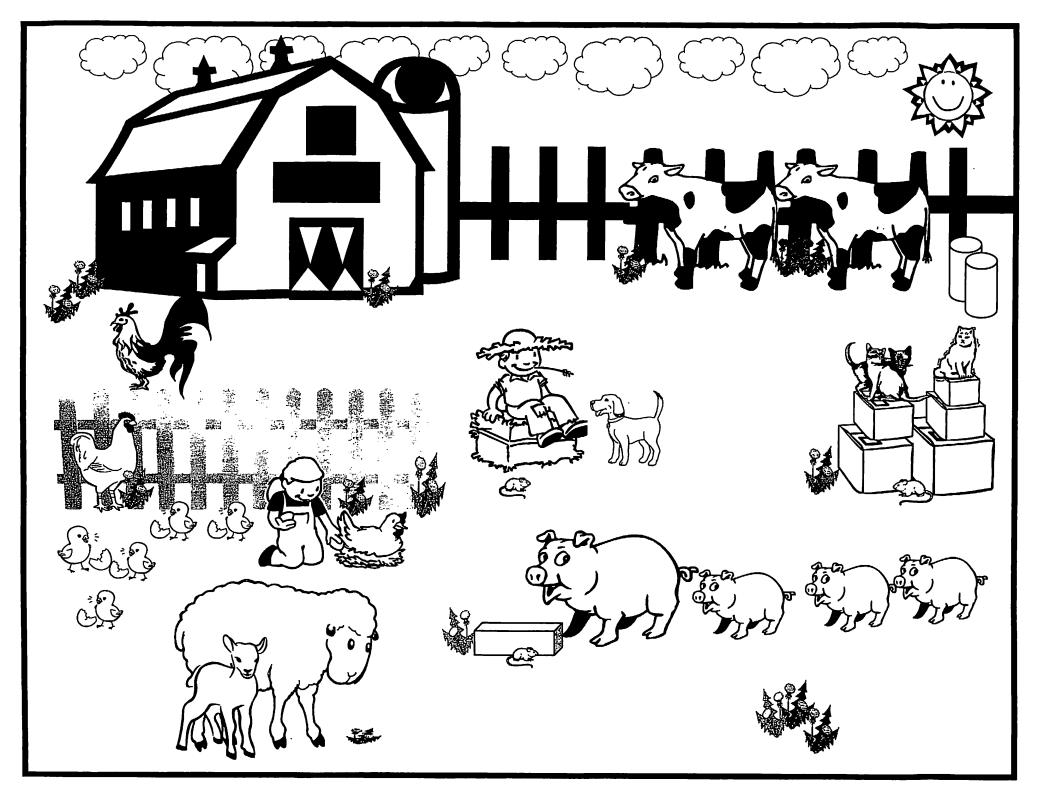
What animal has the most?

What animal has the least?

Use this same format for

conversations using other pictures

from magazines, cards, or calendars.



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# Today's number is



Tally marks			
One more is	Hundreds	Tens	Ones
One less is			
Ten more is			
Ten less is	Expanded Form:	,	

### Regroup and Make a Trade

If it's 1 to 9,
I'm doing fine,
But when it comes to <u>one more</u>,
collect them,
pack them,
trade for a ten,
and shelf them next door!

tens	ones

beans	5555	stickers
stamps	five	noodles
letters	seeds	holes

## Roll it! Show it! Trace it!

Name \_\_\_\_\_

•	2	3	5	5.	•	S
	2	3	<b>(</b> 17)	•_9	-	8

Name \_\_\_\_\_

Circle the name of the winner.

Show It 3 Ways!		Nan	ne	 
	 	·		
			,	

1	2	3	4	5	6	7	8	9	10

Reach for the Stars!

11	10	6	8	7	9	g	7
	•						
			·				
				-			·
<b>A</b>	<b>A</b>	<b>A</b>		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
×	×	×	×	×	*	×	*
*		*	*	*	*	*	*
*	*	*	*	*	*		*
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Reach for the Stars!



Player 1