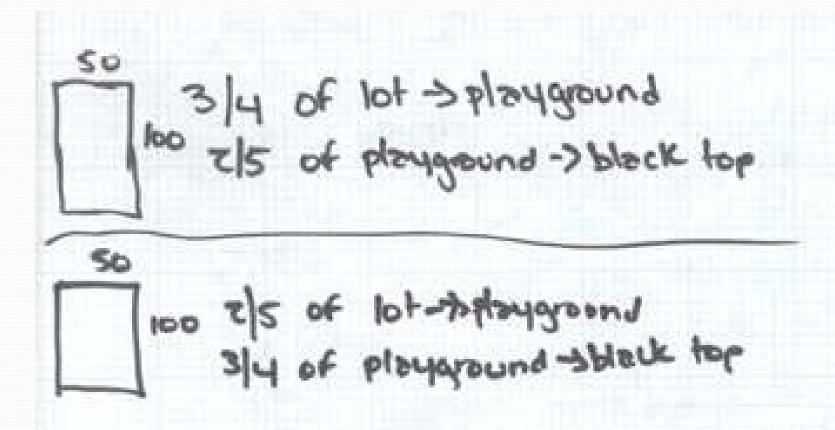
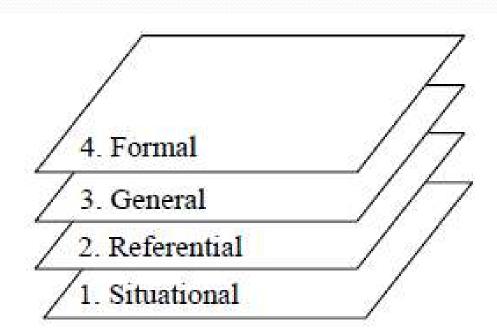
### Pemodelan: Dari "Dunia Nyata" Menuju "Dunia Matematika"

Ariyadi Wijaya dan Tim PMRI UNY 2010



# **Emergent Modeling**

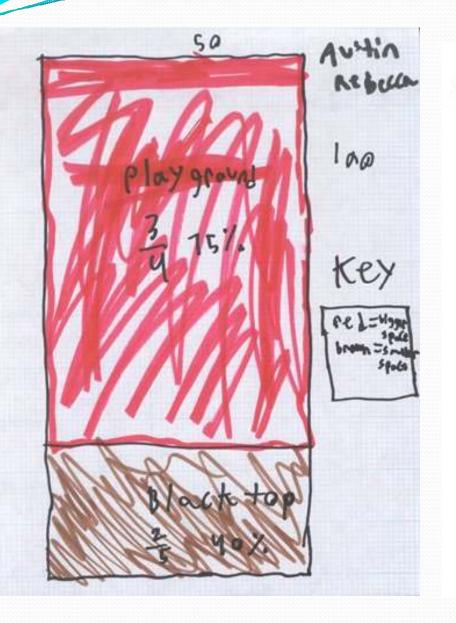


Levels of emergent modeling from situational to formal reasoning

## **Emergent Modeling**

- 1. Situational: masih bekerja dalam konteks
- 2. Referential: menggunakan representasi → model of
- 3. General: sudah lebih fokus pada masalah matematika daripada konteks → model for
- 4. Formal: bekerja dalam matematika dan lepas dari konteks

**VIDEO** 



Austin nebecca

2nd park

3/4 out of 100 is 75

since \( \frac{1}{4} \) is 25 and 25 \( \text{x3} = 75 \)

2 out of 100 is 40

Since \( \frac{1}{4} \) is 20

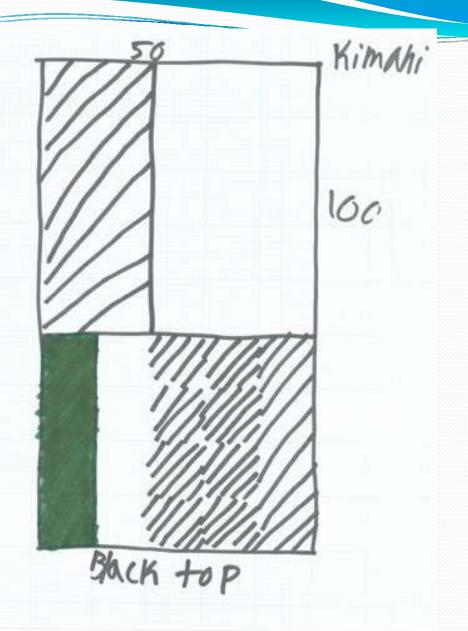
5 × 20 = 100

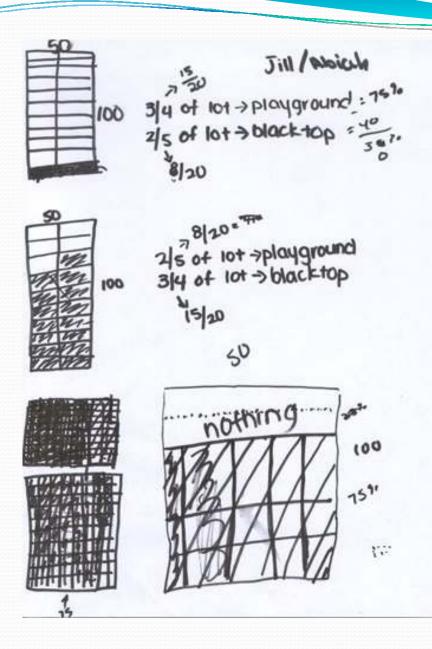
since 75 is ligger than

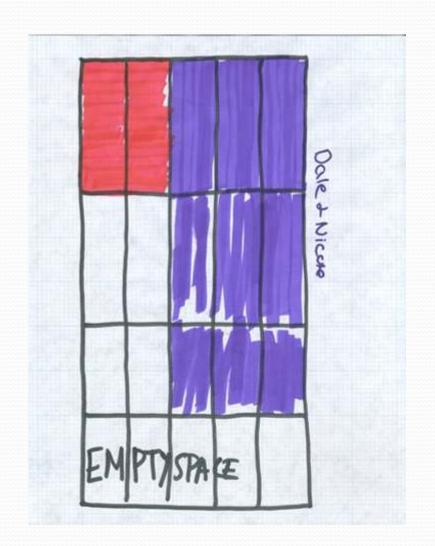
40 the second park nos

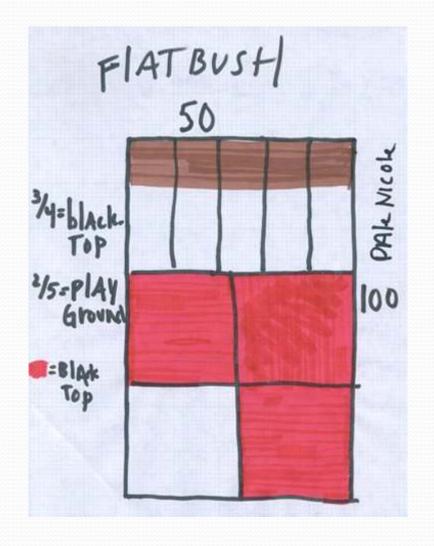
a big germentop 7 is ligger

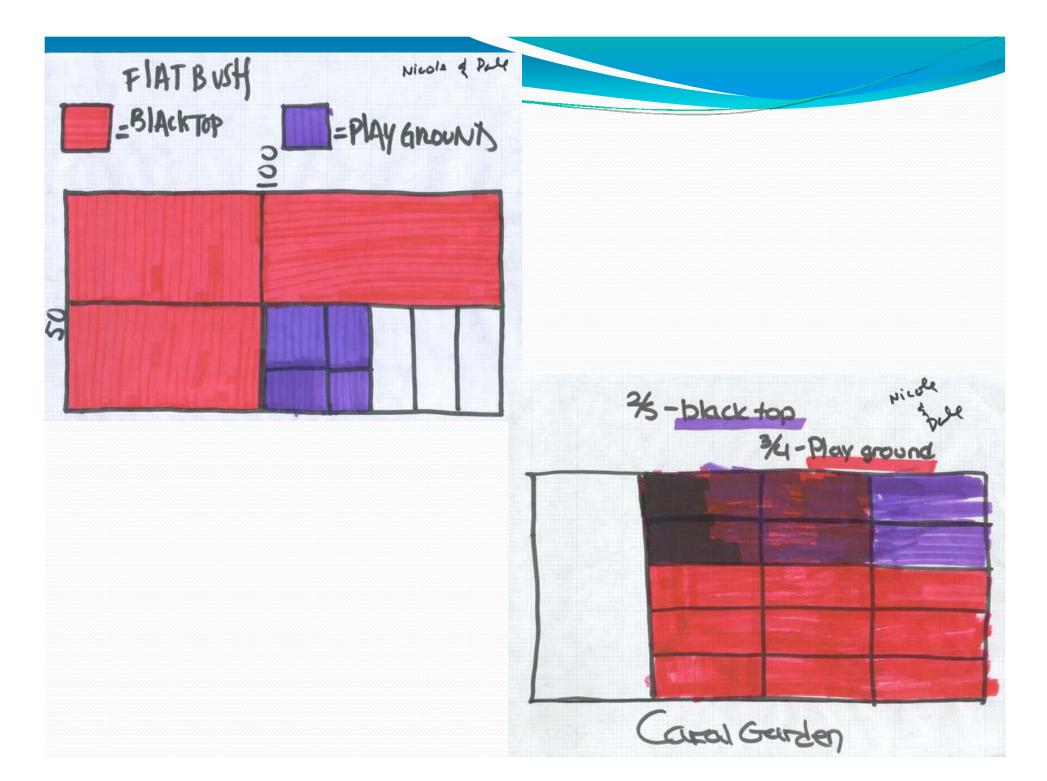
than 25







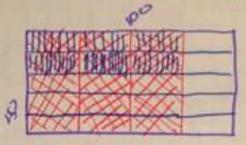




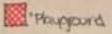
Geomartin, Chris

8/4/03

#### Carrollis Gardon

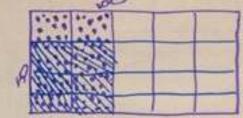


hey:



BICK+ODE No or the physical.

#### Flatbush



hey:

2 Dkyglound

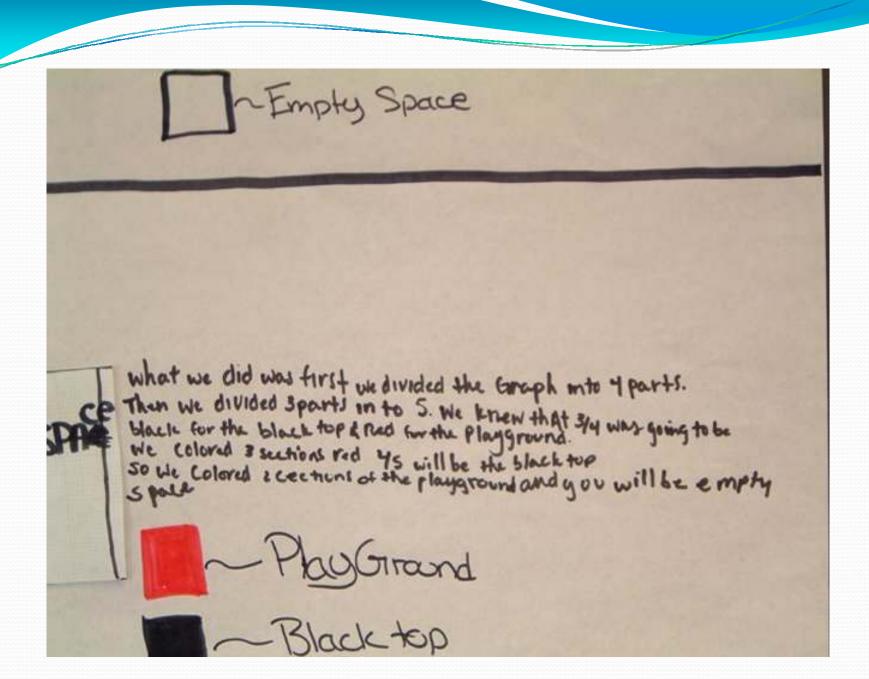
BINCH tOD = 1/0 of the playment

There are 30 boxes in the parks and of the 30 boxes 6/20 are Black top. So from this we think that both Black tops are equal.

### Park



what we did first is we drew a rectangle. Then we colored it into sports. Then we cut 2 the 2 in 2 parts. Then we cut 2 the 2 parts 4 times. Then we colored in 3 of parts 4 times. Then we rest is for the 4 parts, Those were the space for the black top. The rest is for the playaround.



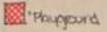
Geomartin, Chris

8/4/03 GVM3

Carrollis Gardon

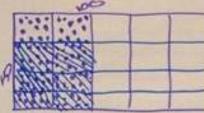
HINTH HATH THEFT

hey:



Block+ODE No or the physician.

Flatbush



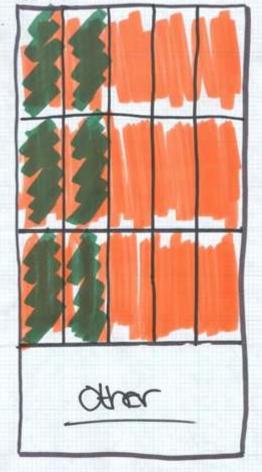
hey.

図=playground

BUCK 400 = NO ON the by highers

There are 30 boxes in the parks and of the 80 boxes 6/80 are Black top. So from this we think that both Black tops are equal.

Lisa+ Louis



Lisa Math 701 3/3/04 CMMD

Paygrounds

#2) Flatbuon Ave Parks

100 M 50

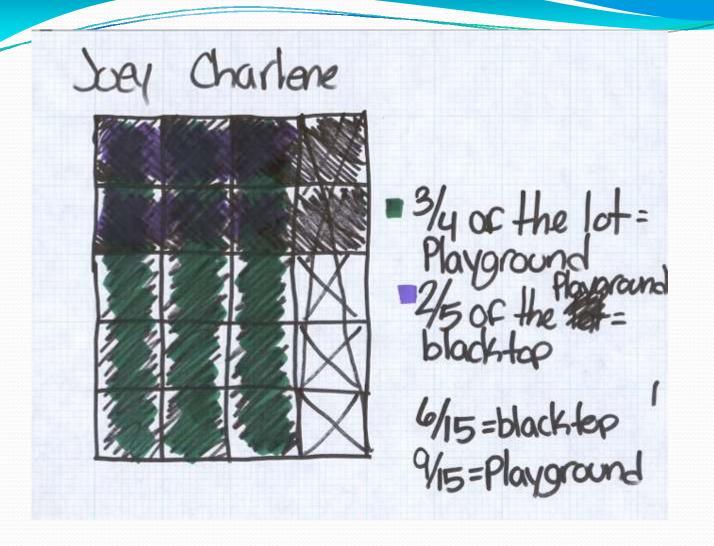
3 = blacktop 3/5 = Playground

3×5 15 / 2×4 8 1/0

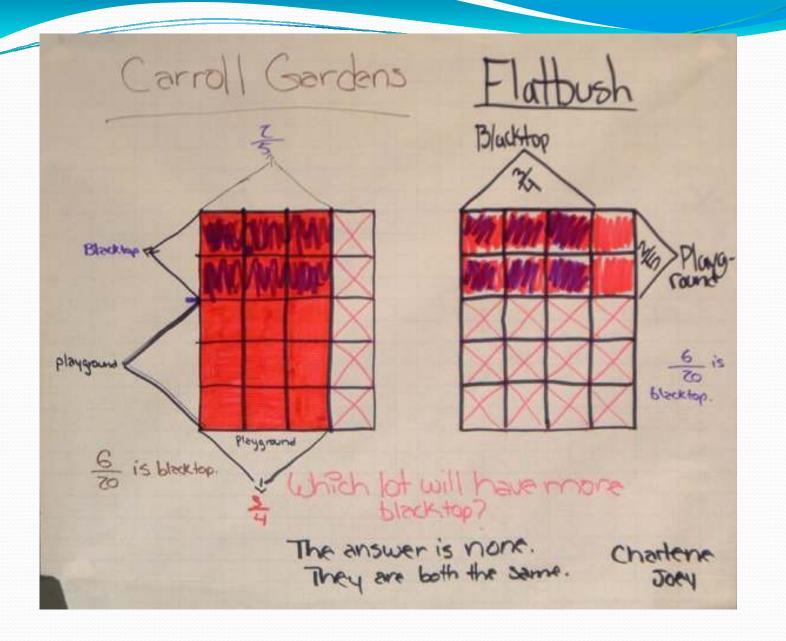
# 100 4 50

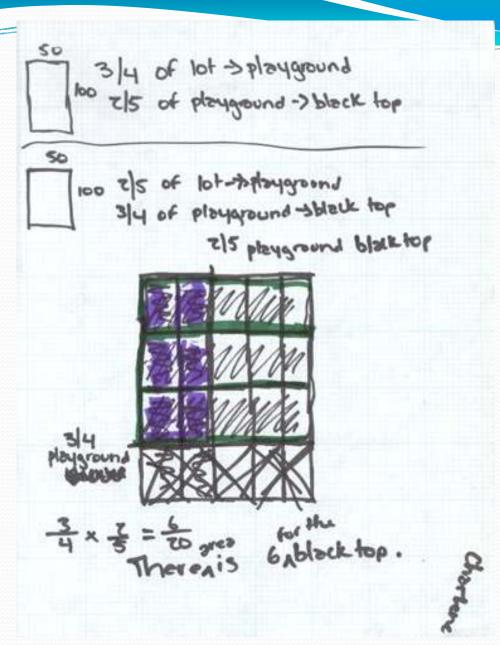
4 Playground 3/5 blacktop

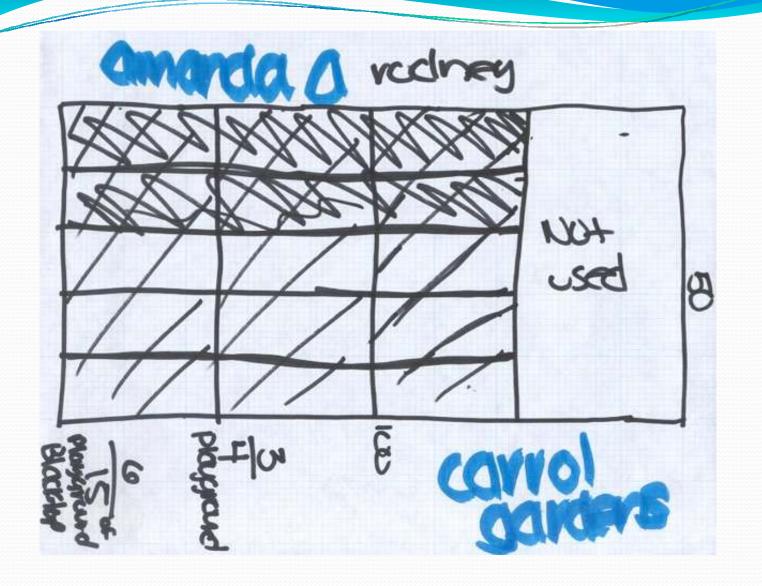
3×5=15' 2×4 8 4×5 20 5×4=20



Siswa kurang memahami "whole" atau unit pecahan







Rodney
amanda

H of lot Playground

2 of lot Black top

\$\frac{3}{4}\frac{3}{5} = \frac{5}{3}\frac{3}{3} = \frac{5}{3}\fr

2) 2 5 Of lot Playground 3 H of lot Black top 2 x 3 = 6 5 x 4 = 20

### Pembentukan Konsep

- Berdasarkan pada hasil kerja siswa atau pengetahuan awal siswa
- Dengan *questioning* (pengajuan pertanyaan)

Bagaimana guru mengarahkan hasil kerja siswa menuju konsep matematika?

