# STRATEGIES TO SUPPORT STUDENTS' NUMBER CONCEPTS AND ADDITION COMBINATIONS DEVELOPMENT IN MULTILINGUAL CLASSROOM

PAT HEUNG CENTRAL PRIMARY SCHOOL





#### STUDENTS' BACKGROUND

- Grade level: P.1
- Number of students: 65 (3 classes)
- Number of NCS students: 33
- Number of local students: 32

#### CHARACTERISTICS IN OUR CLASSROOM

- Huge learning diversity (even within NCS group)
- Lack of support from family (Not only NCS students)
- English as medium of math education

#### STRATEGIES USED

- Holistic approach
- Sustainable approach
- Amendment and abridgement of textbooks' chapters

## TASK / TALK / TOOL

Tasks: Counting activities, logical practice, etc

Talk: Simple consistent language ( "\_\_\_and\_\_\_make\_\_\_")

Tools: Counters, 10 frame, relational rods, etc

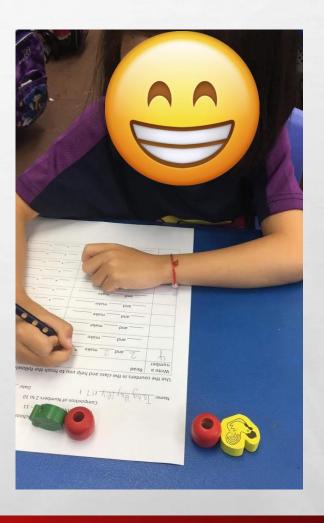
# VARIOUS TOOLS AND TASKS FOR STUDENTS TO UNDERSTAND THE CONCEPTS

- Counters
- Various representations of concepts: number frame (10-frame), number lines, cheery model, bar model, c-rods, drawings, etc.
- Story books
- In class math Game
- Nursery rhymes and songs

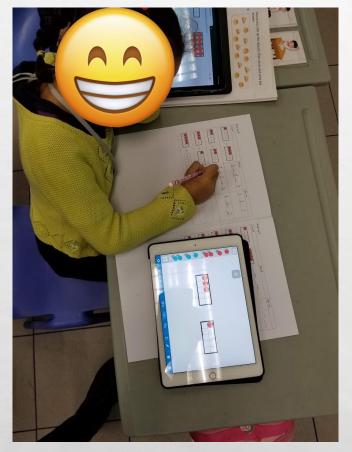
# COUNTERS

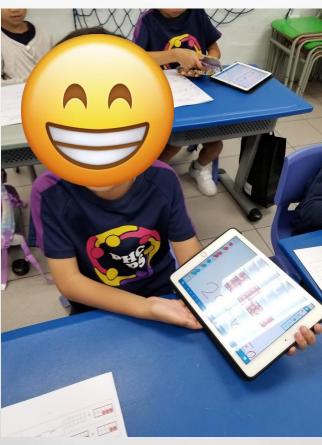


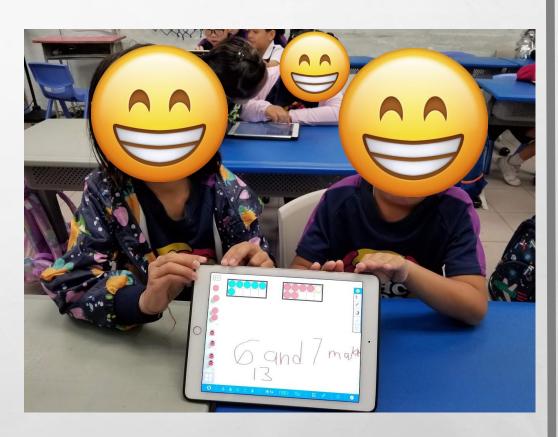




# VARIOUS REPRESENTATIONS: 10 FRAME

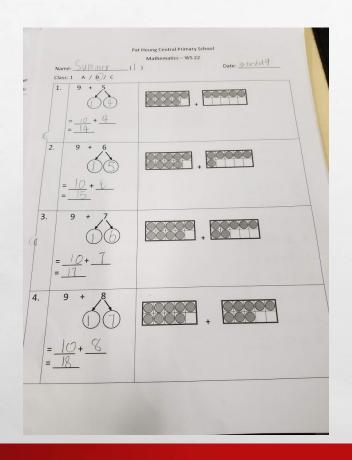


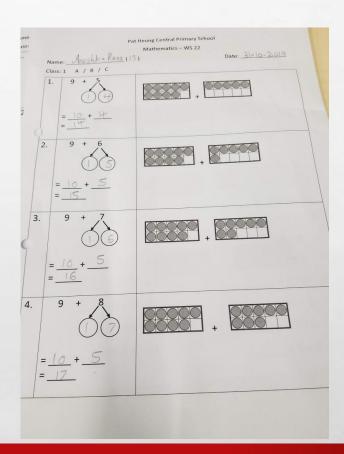




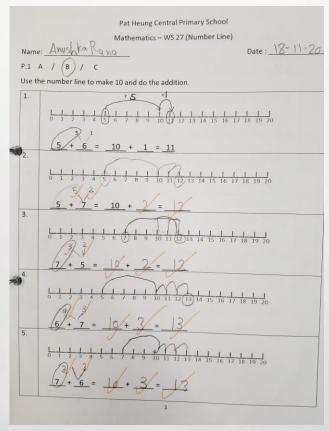
# VARIOUS REPRESENTATIONS: 10 FRAME AND CHERRY MODEL

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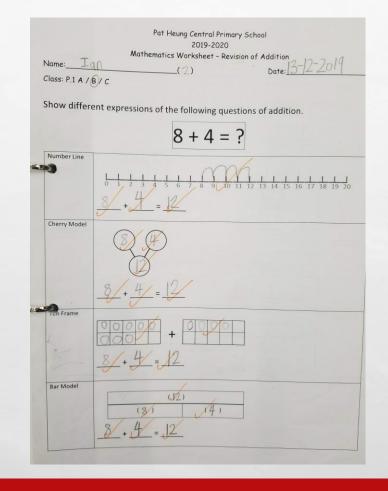




# VARIOUS REPRESENTATIONS: NUMBER LINE

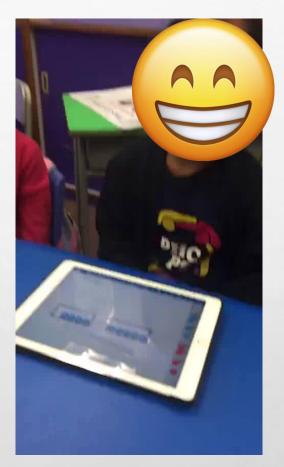


## **VARIOUS REPRESENTATIONS**



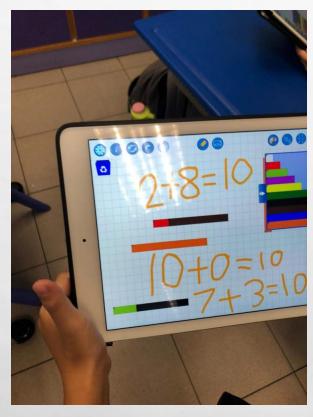
## 10 FRAMES AND MATH LANGUAGE





# **RELATIONAL RODS**

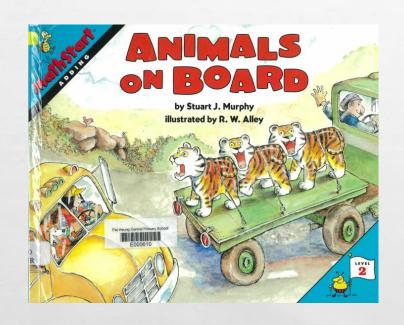


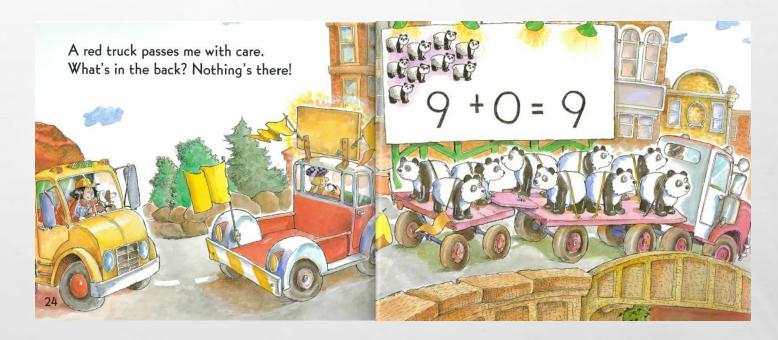






# **NUMBER STORY**





#### DRAWING THE ANSWERS

Read the question, write the number sentence and complete the answering sentence in the box below.

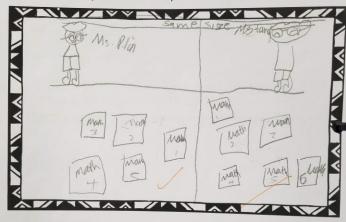
How many animals are there in all?

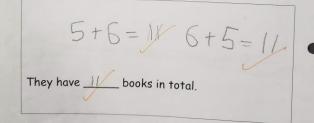
There are 7 animals in all.

Read the question, write the number sentence and complete the answering sentence in the box below.

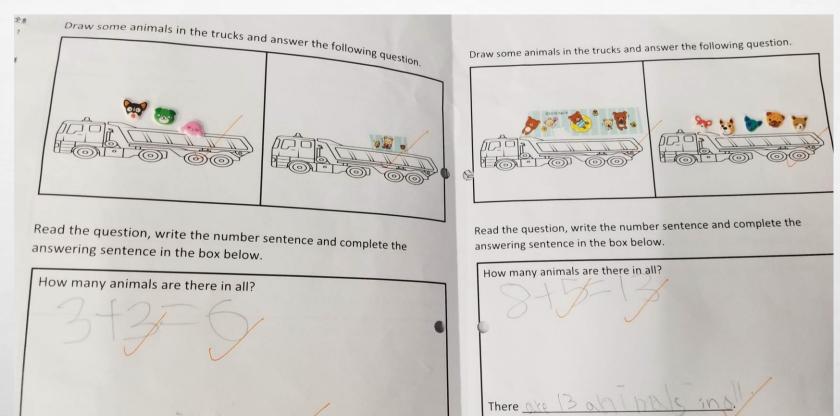
How many animals are there in all?

2. Mr Tang has 6 books. Mr P. Lui has 5 books. How many books do they have in total?





#### DRAWING THE ANSWERS



# **IN-CLASS MATH GAMES**



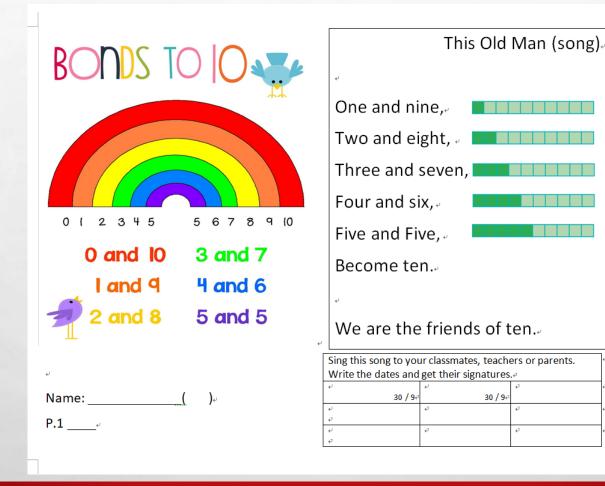


# KAHOOT





#### **NURSERY RHYMES AND SONGS**



#### CONCLUSION

- Holistic approach
- Sustainable approach
- Amendment and cut of textbooks' chapters

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# FINAL CONCLUSION: TEAMWORK



