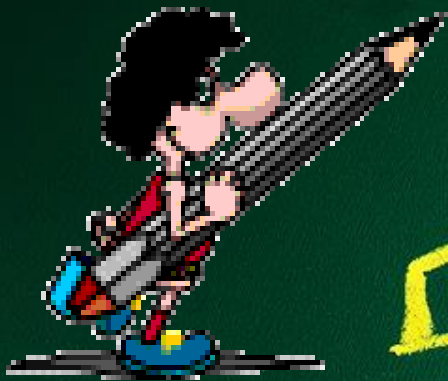


MATHEMATICS

Information for Primary One Parents



$$5 + 2 = 7$$

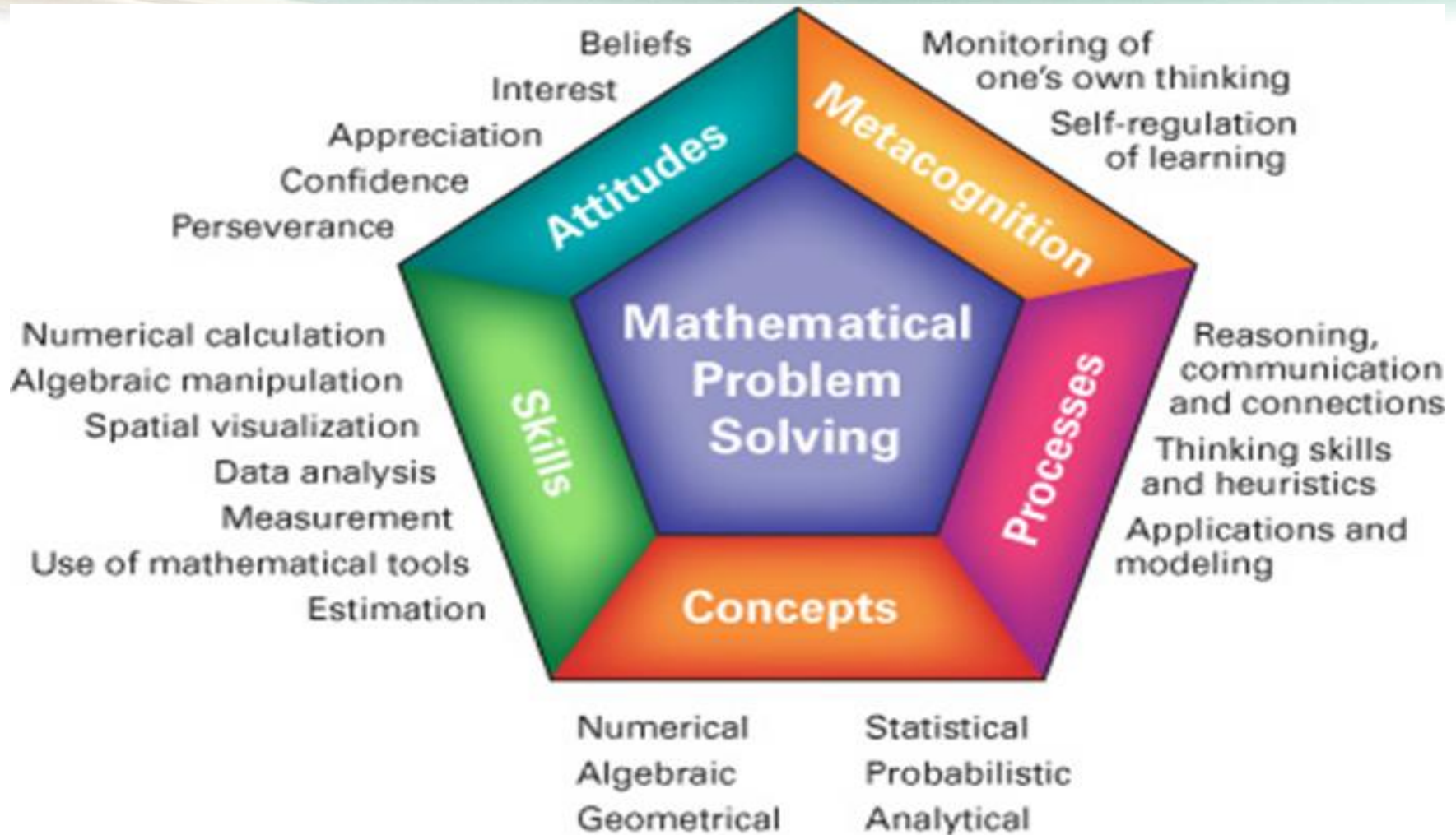




Our Vision

**A Creative, Innovative and
Effective Mathematics Problem
Solver**

Mathematics Framework



From the Singapore Ministry of Education

P1 Syllabus



Number & Algebra (Strand)

- ✓ **Numbers up to 100**
- ✓ **Addition & subtraction**
- ✓ **Multiplication & division**
- ✓ **Money**

Measurement & Geometry (Strand)

- ✓ **Length**
- ✓ **Time**
- ✓ **2D shapes**



Statistics (Strand)

- ✓ **Picture graphs**

Mathematical Processes

- ✓ **Reasoning, communication & connections**
- ✓ **Applications**
- ✓ **Thinking skills & heuristics**



PI PROGRAMMES

Primary Mathematics Instructional Programme

To help **students build strong foundation** in primary Math through a structured teaching sequence and supporting manipulatives and materials based on the concrete-pictorial-abstract (CPA) approach.



PI PROGRAMMES

Hands-On Activities

- Enhance conceptual understanding through use of the Concrete-Pictorial-Abstract approach
- Communicate their reasoning and connections through various mathematical tasks and activities.

Integrated Trails

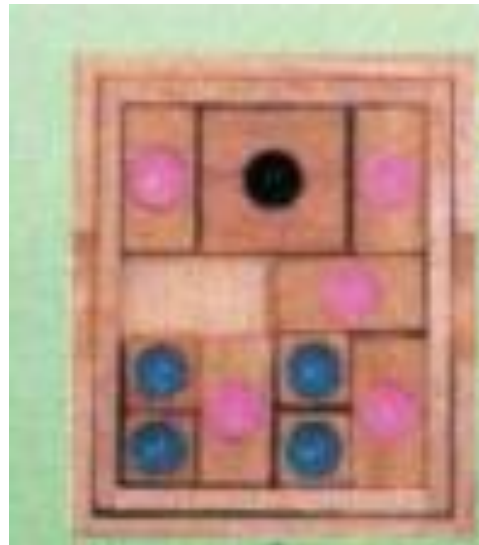
- To experience real-life Mathematics around them



PI PROGRAMMES

BrainGames

- To develop the abilities to reason and apply problem solving skills through games





PI PROGRAMMES

Learning Support for Math

- Provide help for students with weak basic numeracy skills
- Students receive more individual attention from teacher
- Students learn through hands-on experiences



PI PROGRAMMES

Money Sense!

- Able to count amount of money in dollars up to \$100
- Understand the value of money
- Build confidence and foster interest in Mathematics
- Reward system
- Make sound decision



PI PROGRAMMES

Reasoning Cartoon

- Develop thinking, reasoning, communication, application and metacognitive skills with the help of our cartoon characters, Chendol, Kachang, Cheng Teng and Cha Cha.



P1 PROGRAMMES

Fun with Math

- Acquire mathematical concepts through hands-on activities and games using manipulatives





HEURISTICS (P1-P5)

1. Draw a model/diagram
2. Make a systematic list/tabulation
3. Look for patterns
4. Guess and check
5. Act it out
6. Use before-after concept



HEURISTICS (P1-P5)

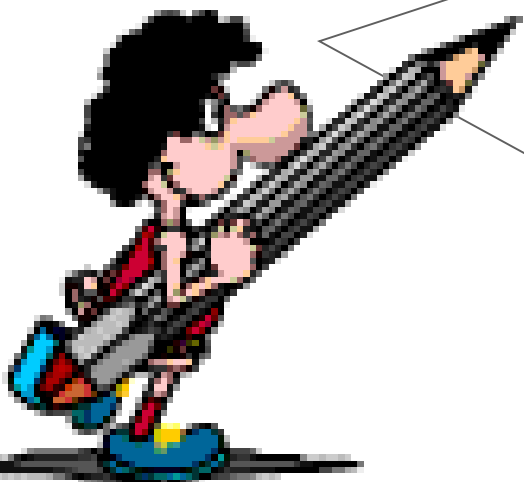
7. Work backwards
8. Restate the problem in another way
9. Simplify the problem
10. Make suppositions



CPA APPROACH

Our approach when teaching Math concepts to young children is from 'Concrete' to 'Pictorial' to 'Abstract'.

C-P-A Approach





MODEL DRAWING

- To allow students to “see” the word problem in a mathematical way and help them to solve the problem sums



MODEL DRAWING

Concrete Objects



Drawing of Rectangular Bars



Solve Abstract Word Problem



STAGE 1: USING CONCRETE MATERIALS

Sam has 4 red toy cars. He buys 6 more green toy cars. How many toy cars does he have now?



$$4 + 6 = 10$$



STAGE 2: PICTORIAL REPRESENTATION

Sam has 4 red toy cars. He buys 6 more green toy cars. How many toy cars does he have now?

?



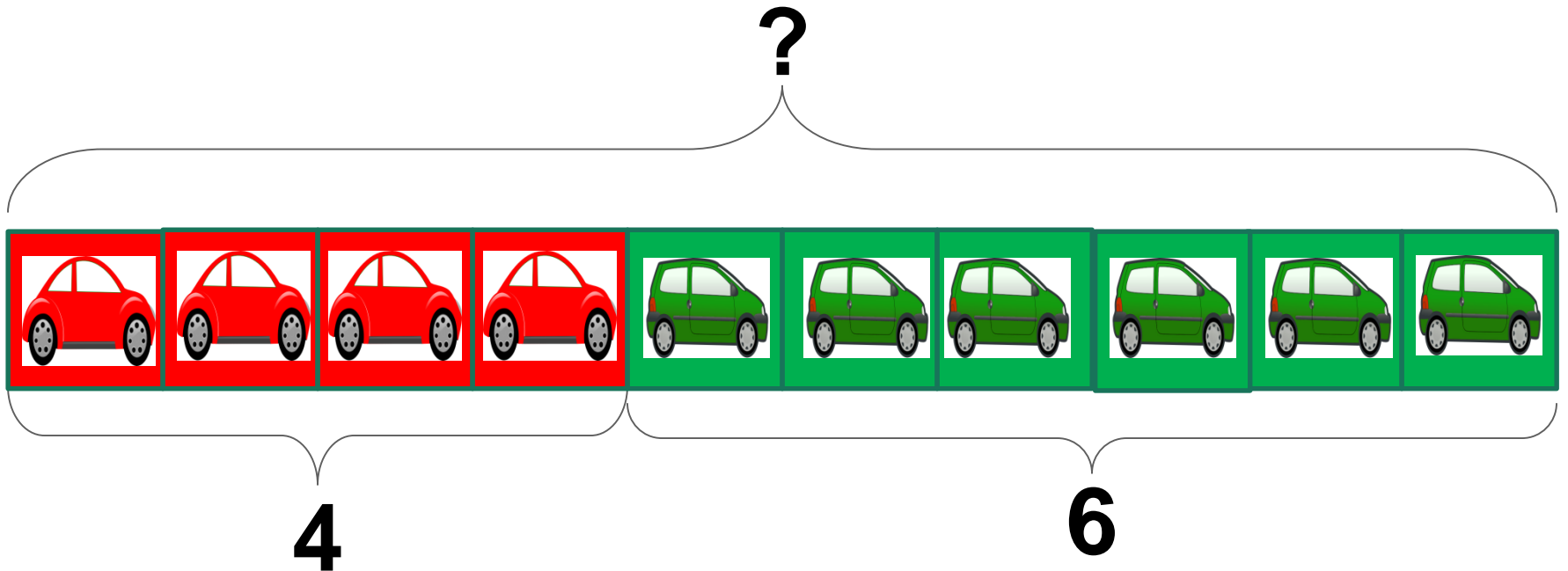
4

6

$$**4 + 6 = 10**$$

STAGE 3: INSERT BOXES WITH PICTURES

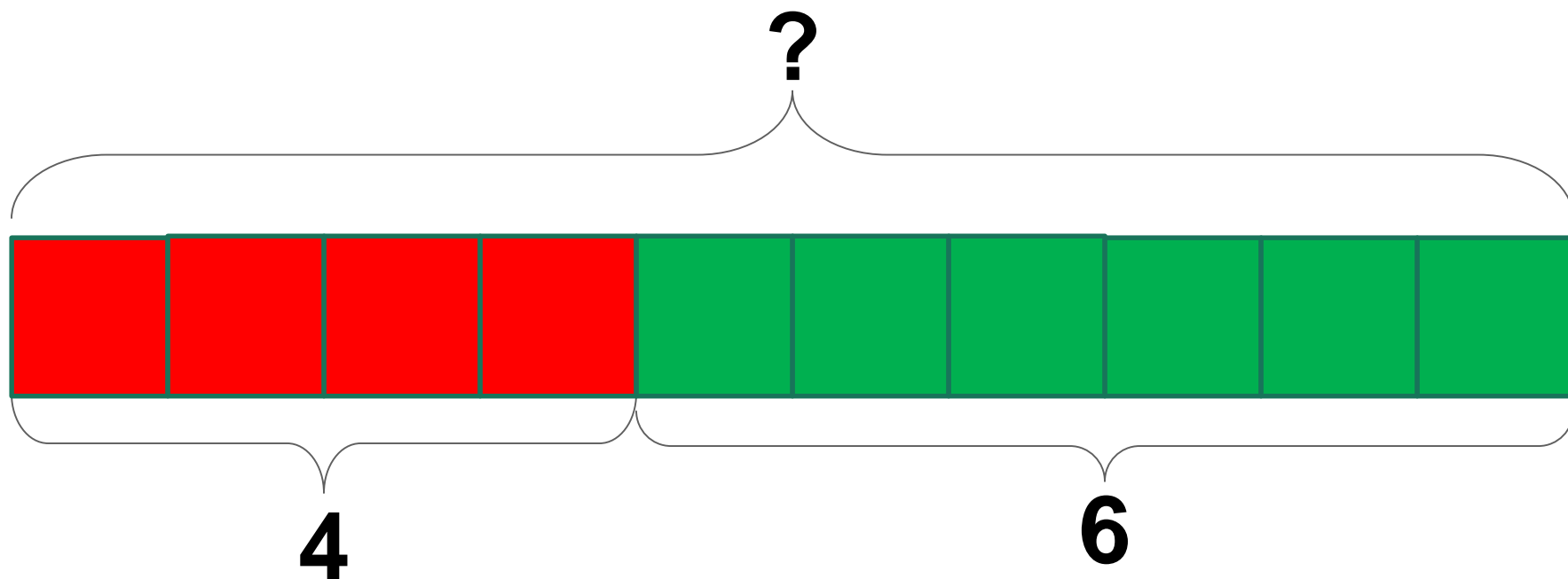
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STAGE 3: INSERT BOXES WITH PICTURES

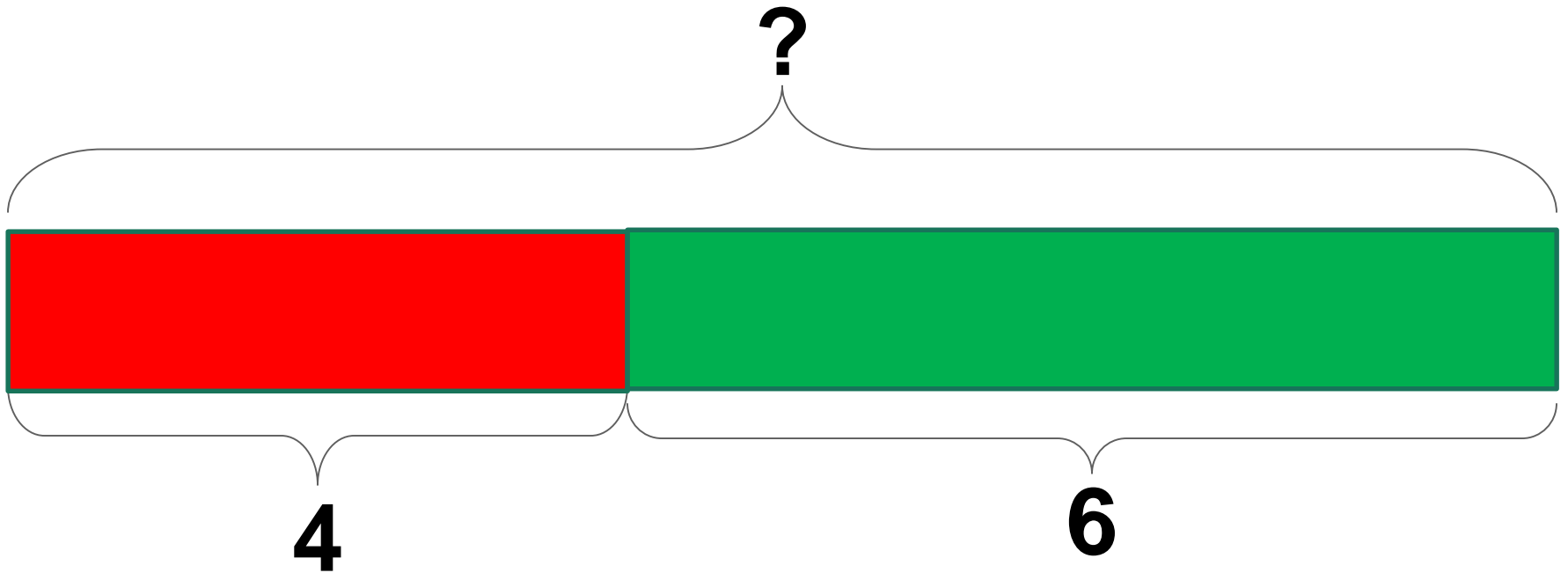
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$$4 + 6 = 10$$

STAGE 3: INSERT BOXES WITH PICTURES

Sam has 4 red toy cars. He buys 6 more green toy cars. How many toy cars does he have now?



$$4 + 6 = 10$$

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



- Carry out these activities in an informal and fun way
- Having mastered counting, (1 to 20), help your child with the number bonds
of 5 : eg. $1 + 4$, $2 + 3$
of 10 : eg. $1 + 9$, $2 + 8$
of 20 : eg. $1 + 19$, $5 + 15$

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



- Count with your child, using familiar concrete objects at home, such as toys, spoons, books etc.
- Start with a small number of objects first and then progress to more objects.
- The importance of Math language

Contact Details



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THANK YOU

