

Name: _____

Date: _____

Problem Sums Made Easy Workshop

Simpler, more systematic and more effective way to teach your child

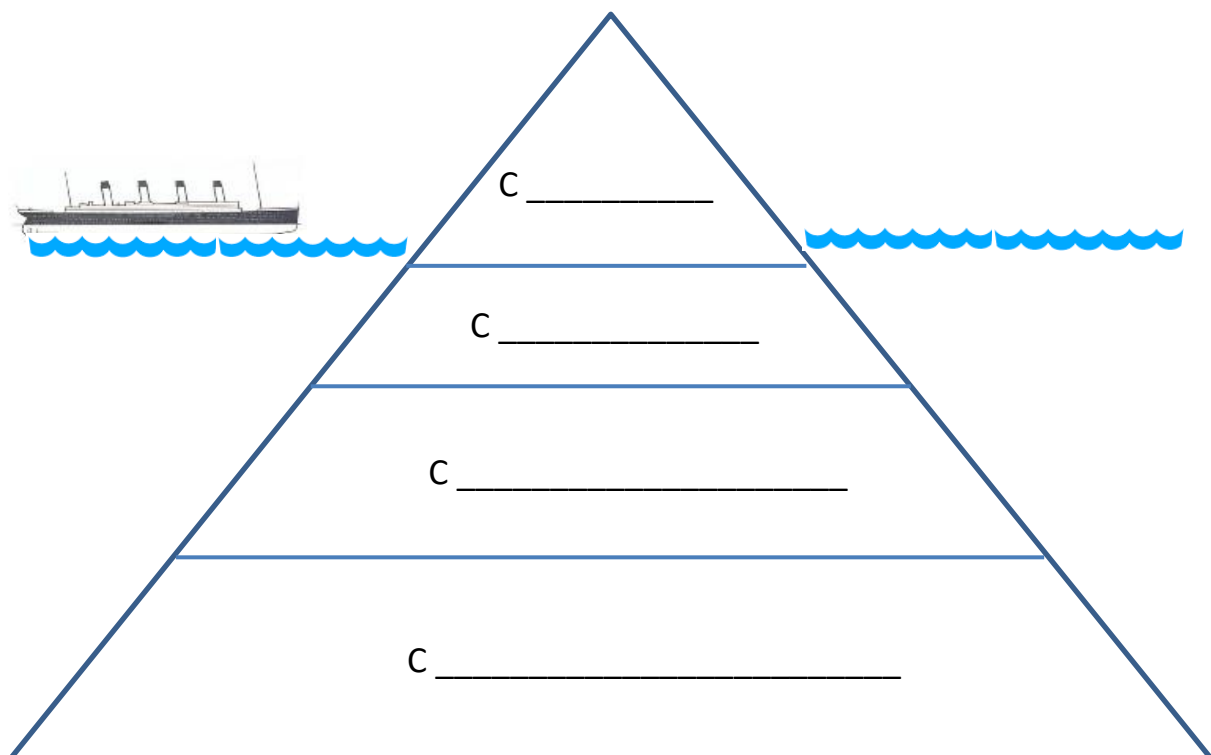
Thank you for joining us today. We believe that for any child to do well, we need the support from parents too.

This workshop is not about solving hard questions. The numbers in this worksheet are kept small. Our workshop focuses on child-friendly, simpler and more effective problem solving concepts, processes and skills. This is our C-P-S Model which had made problem sums easier for over 10,871 students and parents since 2013.

Our proven easy-to-learn C-P-S Model had grown so popular that we have been interviewed/ featured by local Channel 8 News | 8 频道新闻, TV Tokyo | 東京電視台, CCTV News | 中国中央电视台, Süddeutsche Zeitung (the largest German newspaper), Lianhe Wanbao | 联合晚报, The New Paper | 新报 and My Paper | 我报 . BBC World TV had also contacted us for another interview.

From the LOB Team

"4-Cs" Problem Sums Success Formula.



Concepts – Problem Sums Types for Today’s Workshop

1. Guess and Check
 - Legs...wheels...money...points.....
 - 4-step Assumption method
2. Equal Fraction
 - keywords “same as, equal to”
3. Same difference
 - Normally age question
 - Equal change
4. 2-ifs/ when

Skills for problem solving – 3-Steps Formula

(even if your child has no idea where to start)

K- _____ C- _____ M- _____

Before we start solving...

React	Respond
Let's just start. (although I don't know how.)	Which are the keywords/ numbers?
I just want to get this over and done with	What (resources/ info) can I make use of?
I just take any number I see. Just do lor.	What concepts am I tested?
Steps are not important as long as I have an answer to show.	What is the method to solve this?
To me, every question is different. Just want to get the questions done.	What can I learn from here so I can tackle other similar question?
Power goes to the question	Power goes to the solver.

Question:

1. Which method is your child using?
2. Which do you think is more effective for your child in the long term?

1. Guess and check (simplified)

Let's start off by using smaller numbers.

There are 5 cows and ducks in a farm. If the total number of legs are 14, how many cows are there?

Using 4-Step Assumption method (also known as Supposition)

Step 1 – Assume all are _____ (opposite of what you need to find) – Assumed total

Step 2 – Big Difference (between Actual total and Assumed total)

Step 3 – Small Difference (between the number of legs of ONE cow vs ONE duck)

Step 4 - Big Difference divided by small difference (equals to the number of what you need to find)

Solve it yourself under 2 minutes. (1 mark = 1 min of working time)

2. There are 26 ducks and cows in a farm. The total number of legs is 72, how many ducks are there?

K- _____ C- _____ M- _____

Done by myself 😊:

Others:

Bicycles & _____ and total number of _____,

Dogs & _____ and total number of _____,

20-cent coin & _____ and total sum,

\$1-coin & _____ and total sum.

3. In a quiz, each participant had to answer 50 questions. For each question answered correctly, the participant was awarded 2 points. For each question answered wrongly, 1 point was deducted. Hassan scored 64 points in the quiz. How many questions did he answer wrongly?

(Source: Nanyang Pri Sch, P5, CA1 Paper 2, Qn7)

K- _____ C- _____ M- _____

<p style="text-align: center;"><u>Done by myself ☺</u></p>	<p style="text-align: center;"><u>This is what I was taught ☺</u></p>
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4. There are 8 more buses than bicycles in a carpark. If there is a total of 176 wheels, how many bicycles are there?

K- _____ C- _____ M- _____

<p><u>Done by myself 😊</u></p>	<p><u>This is what I was taught 😊</u></p>
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5. $\frac{2}{5}$ of James' pencils is equal to $\frac{1}{3}$ of Kelvin's pencils. If Kelvin has 4 more pencils than James, how many pencils does James have?

K- _____ C- _____ M- _____

Method 1 - Model:

<u>Done by myself ☺</u>	<u>This is what I was taught ☺</u>

6. $\frac{2}{5}$ of James' pencils is equal to $\frac{1}{3}$ of Kelvin's pencils. If Kelvin has 4 more pencils than James, how many pencils does James have?

Method 2 - Tic-tac-toe (make numerator the same):

This is what I was taught ☺

Ex: Draw the tic-tac-toe.

7. 75% of James' sweets is same as $\frac{1}{3}$ of Peter's sweets. If James has 30 fewer sweets than Peter, how many sweets does James have?

K- _____ C- _____ M- _____

First, change p _____ to f _____.

This is what I was taught ☺

8. Joanne is 6 years old and her father is 36 years old. In how many years' time will her father's age be 3 times her age?

K- _____ C- _____ M- _____

<p style="text-align: center;"><u>Done by myself 😊</u></p>	<p style="text-align: center;"><u>This is what I was taught 😊</u></p>
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9. Sam had 93 gold cards and 385 silver cards. After he bought an equal number of gold and silver cards, there were $\frac{3}{7}$ as many gold cards as silver cards. How many gold cards did he buy?

K- _____ C- _____ M- _____

<p style="text-align: center;"><u>Done by myself ☺</u></p>	<p style="text-align: center;"><u>This is what I was taught ☺</u></p>
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10. Tim bought a box of sweets to give to his friends. If he gives 6 sweets to each friend, he will have 3 sweets left. If he gives 7 sweets to each friend, he will need 10 more sweets. How many friends were there?

K- _____ C- _____ M- _____

<p><u>Done by myself 😊</u></p>	<p><u>This is what I was taught 😊</u></p>
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Ex: Solve it yourself using 3 steps.

11. John has a bag of sweets. He wants to share with his classmates. If he gives 8 sweets to each classmate, he will have 6 left. If he gives 10 sweets to each classmate, he will be short of 18 sweets. How many classmates are there?

K-_____ C-_____ M-_____

<u>Done by myself ☺</u>	<u>This is what I was taught ☺</u>
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Summary:
Step 1: Total needed (if the change is to happen)

Step 2: Small difference

Step 3: Step 1 ÷ Step 2