

**PRIMARY 6  
FOUNDATION  
MATHEMATICS**

# FOUNDATION MATH TOPICS

SEMESTER 1	SEMESTER 2
Fractions	Volume (continued)
Decimals	Triangles, Squares and Rectangles
Percentage	Area of Triangles
Average	
Pie Charts	
Volume	

# PROBLEM SOLVING SKILLS

## Note:

The slides show some examples of problem solving skills in Primary 6.  
They are not exhaustive.

## 1. Draw a model or diagram

### Example question from PSLE 2020

Mrs Jeya bought some stickers. On Monday, she gave  $\frac{1}{4}$  of the stickers to students in Group A and had 72 stickers remaining.

- a) On Tuesday, she gave  $\frac{5}{12}$  of the remaining stickers to students in Group B. How many stickers did she give to Group B?
- b) How many stickers did Mrs Jeya buy?

# PROBLEM SOLVING SKILLS

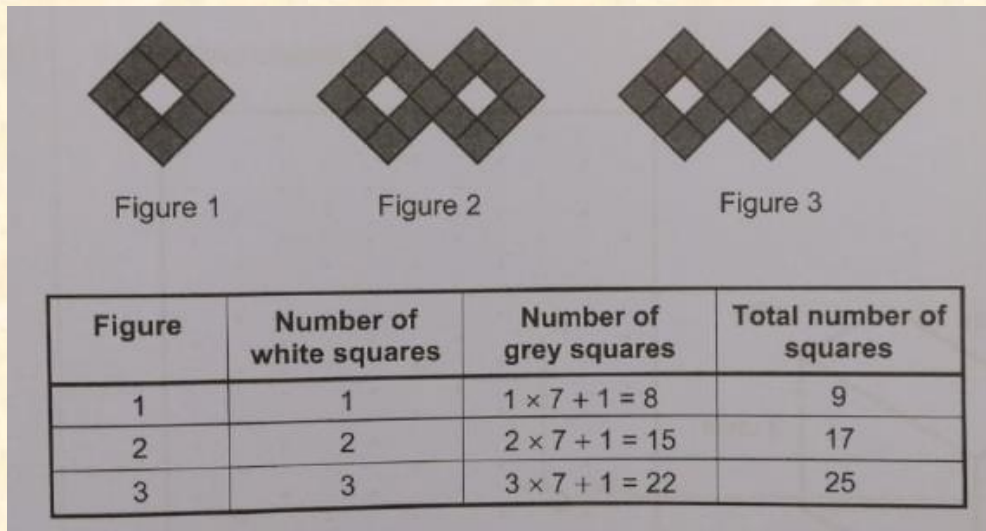
## Note:

The slides show some examples of problem solving skills in Primary 6.  
They are not exhaustive.

## 2. Look for a Pattern

### Example question from PSLE 2018

White squares and grey squares were used to form figures that follow a pattern. The first three figures are shown below.



What was the total number of squares used to form Figure 9?

# **EXAMPLES OF PROBLEM SOLVING STRATEGIES**

- Draw a model or diagram
- Make a systematic list
- Before / after concept
- Look for a pattern
- Work backwards

Etc.

# Assessments (Primary 6)

	Weightage	Paper 1 Booklet A	Paper 1 Booklet B	Paper 2	Total
<b><u>Term 1:</u></b> TERM REVIEW 1	nil	30 marks	20 marks	40 marks	90 marks
<b><u>Term 2:</u></b> TERM REVIEW 2	nil	30 marks	20 marks	40 marks	90 marks
<b><u>Term 3:</u></b> PRELIM	100%	30 marks	20 marks	40 marks	90 marks
<b><u>Term 4:</u></b> PSLE					

# Format of Exam Paper

Paper	Booklet	Item Type	No. of qns	No. of marks per qn	Weighting	Duration
<b>1</b> Cal. <b>NOT</b> allowed	<b>A</b>	Multiple-choice	10	1	10%	1 h
			10	2	20%	
	<b>B</b>	Short -answer	10	2	20%	
<b>2</b> Cal. allowed		Short-answer	10	2	20%	1 h
		Structured / Long-answer	6	3 or 4	20%	
Total			46		90%	2 h

Both papers are scheduled on the same day with a break between the two papers.

# Paper 1 Booklets A & B:

Use of calculator is NOT ALLOWED

## **Booklet A: 20 Multiple-Choice Questions (MCQ)**

- Indicate answer on question paper to facilitate checking.
- Shade oval in OAS after completing each question.

## **Booklet B: 10 Short Answer Questions**

- To show workings clearly and write the correct answers in the spaces provided
- Do not erase the workings as method marks may be awarded for the correct workings shown, even if the answer is wrong.



# Paper 2

Use of calculator is **ALLOWED**

**10 Open-Ended Questions (2 marks each) &  
6 Problem Sums (3 or 4 marks each)**

## Problem Sums

- To show each step taken and workings clearly, so that **method marks** and answer marks can be awarded accordingly.
- Pupils are encouraged to **show all steps** as method marks may be awarded, even if the answer is wrong.

# LIST OF APPROVED CALCULATORS FOR USE IN MATH EXAMINATIONS

S/N	Calculator Brand	Calculator Model	Approved Period <sup>1</sup>
1	CASIO	FX 82MS	2003 – 2026
2		FX 85MS	2003 – 2026
3		FX 95MS	2003 – 2026
4		FX 96SG Plus	2013 – 2025
5		FX 97SG X	2018 – 2026
6		FX 350MS	2003 – 2026
7	CANON	F-960SG	2017 – 2026
8	SHARP	EL W531S II	2018 – 2026
9		EL W531S II Silver Edition	2021 – 2025
10		EL 533X	2013 – 2024

For updates or approval for other models, refer to [https://www.seab.gov.sg/docs/default-source/documents/guidelines-on-the-use-of-calculators\\_for-2024-exam-\(website\).pdf](https://www.seab.gov.sg/docs/default-source/documents/guidelines-on-the-use-of-calculators_for-2024-exam-(website).pdf)

# PRESENTATION OF SOLUTIONS

- **Consistency** in units of measure

$$3 \text{ kg} \times 4 = 12 \text{ kg} \text{ 😊}$$

~~$$3 \times 4 = 12 \text{ kg} \text{ 😞}$$~~

- **Use equal signs** correctly

$$\frac{1}{2} \text{ of total amount} = \$45 \text{ 😊}$$

~~$$\frac{1}{2} = \$45 \text{ 😞}$$~~

# PRESENTATION OF SOLUTIONS

- Show the method of solution (working steps) clearly
- **Standard units of measurement** should accompany the final answers. Missing **units** in final answers will result in mark deduction.

## Example:

Ans: 10 **cm**

Ans: 264 **m**

Ans: **\$**517

Ans: 34 **kg**

# PRESENTATION OF SOLUTIONS

Mrs Tay deposits \$8000 in a bank for one year. The interest rate is 2% per year. What is the total amount of money she will have in the bank at the end of one year?

$$100\% \text{ of money} = \$8000$$

$$\begin{aligned} 1\% \text{ of money} &= \$8000 \div 100 \\ &= \$80 \end{aligned}$$

$$\begin{aligned} 2\% \text{ of money} &= \$80 \times 2 \\ &= \$160 \end{aligned}$$

$$\$8000 + \$160 = \$8160$$

**Ans: \$8160**

**Wrong Mathematical  
Presentation**

$$100\% = \$8000$$

$$1\% = \$80$$

$$2\% = \$160$$

# Partnership with the school...

- Assignments or practice papers from school
  - Ensure conducive working environment.
  - Insist that your child sticks to the given time frame – nothing more and nothing less.
  - Good time management practice.

# As a pillar of strength and support for your child...

- Praise, encourage and motivate
- Strategise – focus on areas of weaknesses
- Time Management
- **Ensure that mistakes made are corrected**
- **Constant practice** – do a few Math questions a day to ensure daily practice
- More math...in other forms
  - Math Games → [Coolmath.com](http://Coolmath.com)
  - Math Literature → Math magazines
  - Daily life
  - Logic puzzles
- **Manage stress** – watch for change in behaviour

***THANK YOU***