

**PRIMARY 5  
FOUNDATION  
MATHEMATICS**

# Math Topics (Semester 1)

## TERM 1

5A Unit 1 Whole Numbers: Place Values

5A Unit 2 Whole Numbers: Addition & Subtraction

5A Unit 3 Whole Numbers: Multiplication & Division

## TERM 2

5A Unit 4 Fractions: Introduction

5A Unit 5 Fractions: Addition & Subtraction

5 A Unit 6 Geometry

# Math Topics (Semester 2)

## TERM 3

5B Unit 1 Decimals: Place Values

5B Unit 2 Decimals: Four Operations

5B Unit 3 Fractions: Multiplication

5B Unit 4 Time

## TERM 4

5B Unit 5 Perimeter, Area & Volume

5B Unit 6 Rate

5B Unit 7 Tables & Graphs

# PROBLEM SOLVING SKILLS

## 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?

Note:

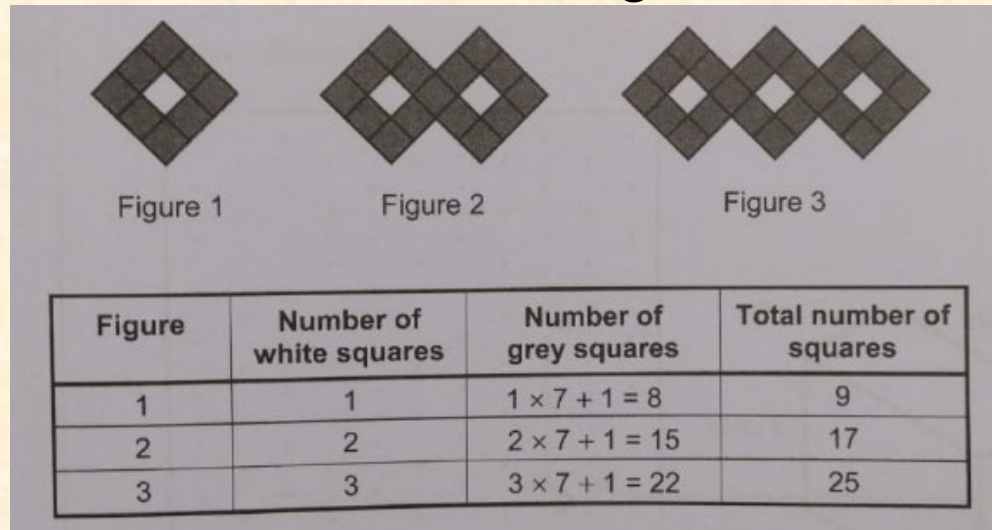
The slides show some examples of problem solving skills in Primary 6. They are not exhaustive.

# PROBLEM SOLVING SKILLS

## 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?

Note:

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

# **Some Examples of Problem Solving Strategies**

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

# Primary 5 Assessments

<b>Term 1</b>	<b>Term 2</b>	<b>Term 3</b>	<b>Term 4</b>
Formative Assessment	Weighted Assessment (WA) 1	Weighted Assessment (WA) 2	End – Of – Year Examination (EOY)
Non-weighted	15%	15%	70%

# WA1 and WA2 ASSESSMENT FORMAT

## WA 1 (no calculator is allowed) - Duration: 40 min

Section	Item Type	No of Questions		No of Marks per Question	Total Marks
A	Multiple-choice	6	Q1 – 6	1	6
		3	Q7 – 9	2	6
B	Short - answer	4	Q10 – 13	1	4
		7	Q14 – 20	2	14
Total		20			30

## WA 2 (calculator is allowed)- Duration: 40 min

Item Type	No of Questions		No of Marks per Question	Total Marks
Structured/ Long- answer	4	Q1 – 4	2	8
	3	Q5 – 9	3	9
	2		4	8
TOTAL	9			25



# EOY EXAM FORMAT

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: 15 Multiple Choice Questions (MCQ)**

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

## **Booklet B: 15 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** (for 2 marks questions) shown, even if the answer is wrong.

# Paper 2

Use of calculator is **ALLOWED**

**5 Open-Ended Questions (2 marks each) &  
12 Problem Sums (3, 4 or 5 marks)**

## 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

## OFFICIAL (OPEN)

### LIST OF APPROVED SCIENTIFIC CALCULATORS

The following scientific calculator models are suitable for

- PSLE Mathematics and Foundation Mathematics Examinations
- GCE N(T), N(A), O and A-Level 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	2010 – 2023
9		EL W531S II	2018 – 2026
10		EL W531S II Silver Edition	2021 – 2025
11		EL W531XM	2014 – 2023
12		EL 533X	2013 – 2024

For any updates, refer to

[https://www.seab.gov.sg/docs/default-source/documents/guidelines\\_calculators](https://www.seab.gov.sg/docs/default-source/documents/guidelines_calculators)

# Presentation of solutions

- **Consistency** in units of measure

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

- **Use equal signs** correctly

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

$$\text{---} \frac{1}{2} = \$45 \text{ 😞}$$

- 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: \$517**

**Ans: 264 m**

**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...

Do support the learning of your child in Math by

- Reminding him/her to submit completed school assignments punctually
- Ensuring a conducive working environment, especially for timed practice papers.
- Encouraging him/her to check the completed work and correct the mistakes made in homework.
- Encouraging him/her to seek clarifications in class when in doubt.

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

- Affirm and praise the effort he/she has put in the subject
- Provide joy of learning via physical or digital math games , such as digital games on [coolmath.com](http://coolmath.com), logic puzzles and math magazines.
- Discuss the use of Math in daily life, such GST and discount in shopping.
- Guide them to manage their stress by looking out for any change in behaviour or temperament.



***THANK YOU***