

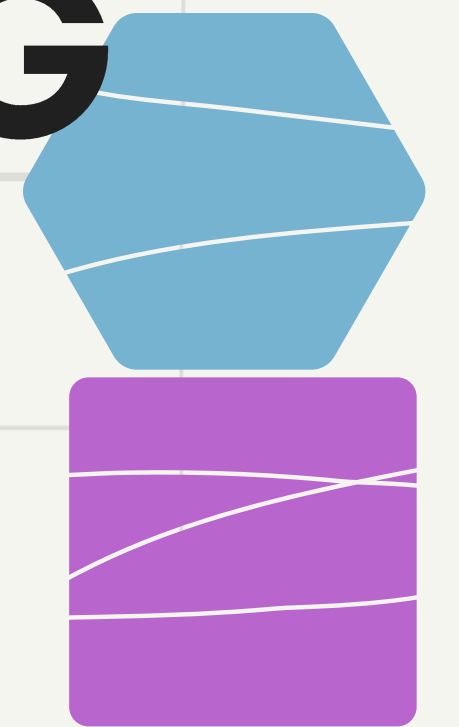


# **MATHEMATICS**

## **SUBJECT-BASED BANDING**

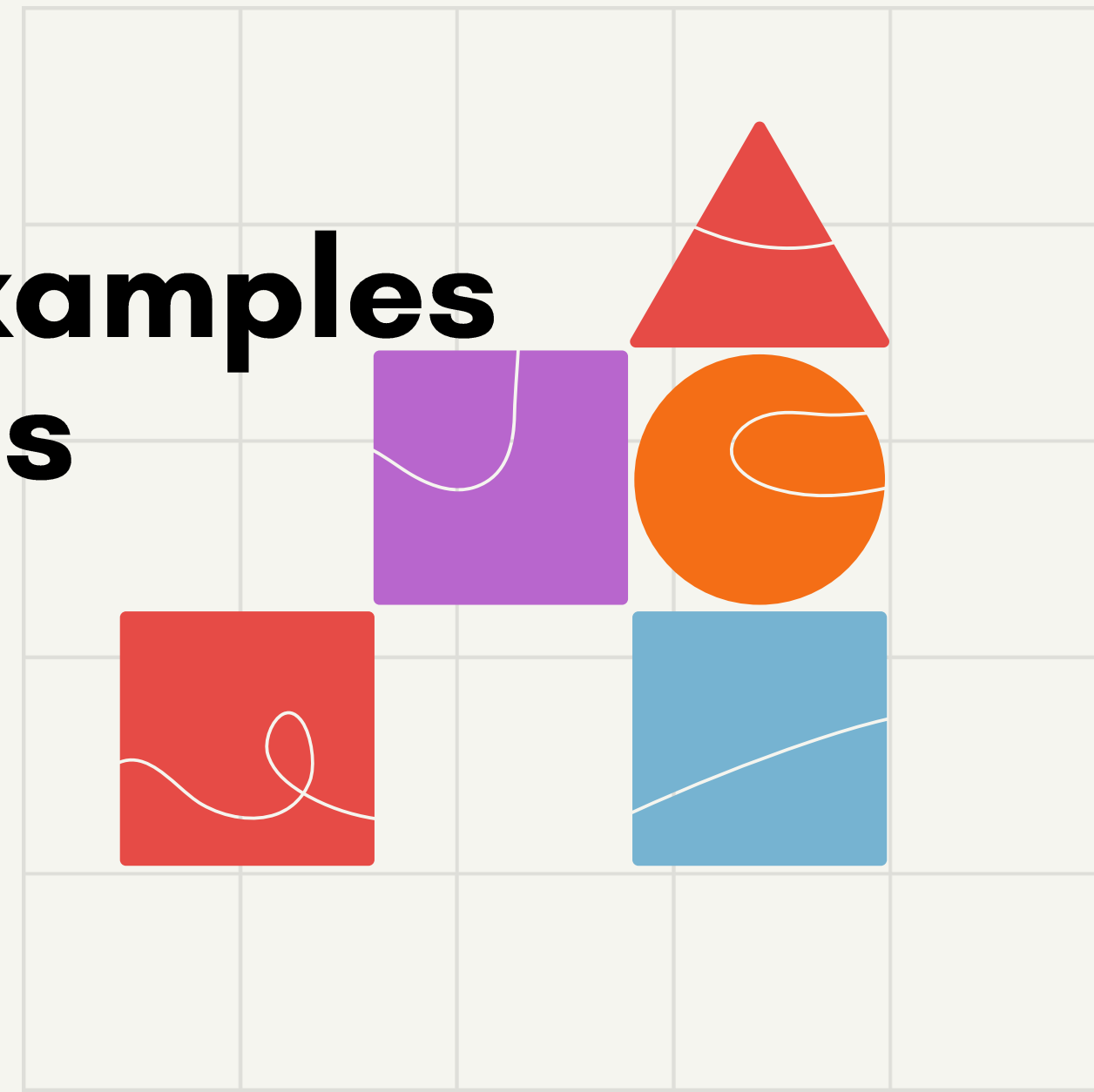
### **BRIEFING**

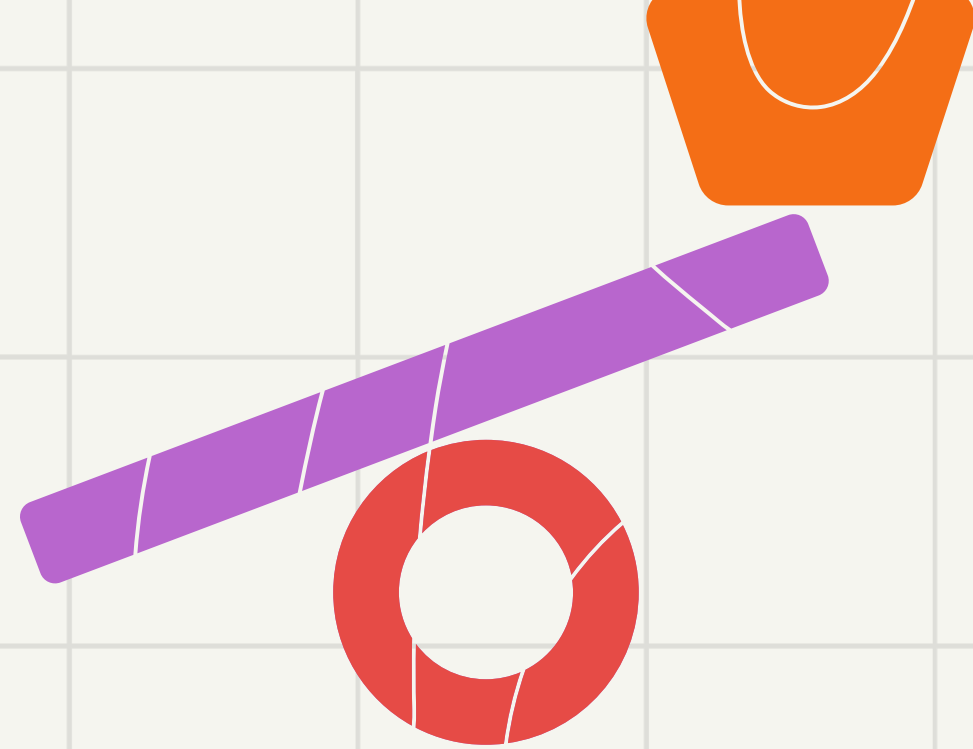
### **2026**



# Outline

- **P4 Topics**
- **Math can be fun!**
- **SBB Math exam format**
- **STAR Approach**
- **Question Item types and examples**
- **Students' common mistakes**
- **Study tips**





# P4 Math Topics

- Numbers To 100 000
- Factors And Multiples
- Four Operations Of Whole Numbers
- Tables And Line Graphs
- Fractions
- Angles
- Squares And Rectangles
- Decimals
- Four Operations Of Decimals
- Pie Charts
- Area And Perimeter
- Nets
- Symmetry



**Have you  
ever seen  
your child  
look like this  
while doing  
math?**

# Why Does Math Feel Stressful?

- Pressure to achieve perfect scores.
- Lack of relatable real-life applications.
- Misconceptions about being "bad at math."
- Focusing on memorisation rather than understanding concepts.





"Without mathematics, there's  
nothing you can do. Everything  
around you is mathematics.  
Everything around you is  
numbers."

– Shakuntala Devi

**LittleYellowStar**





# How Math can be made fun to learn at home

## 1. Play Math-Based Games

- Games:
  - ✓ Monopoly,
  - ✓ UNO ONO 99
  - ✓ Sudoku
  - ✓ Tangram
- Apps/websites:
  - ✓ Koobits
  - ✓ [mathplayground.com](http://mathplayground.com)







Playing **Monopoly** provides a rich and engaging opportunity for children to practice a variety of math concepts in a fun and interactive way.

### Basic Arithmetic

#### **1.Addition and Subtraction**

- Adding money when receiving income or collecting rent.
- Subtracting expenses when buying properties or paying fines.

#### **2.Multiplication**

- Calculating rent that increases with property improvements (e.g., 4 times the original rent).

#### **3.Division**

- Splitting money when dividing assets during negotiations.





Playing **Monopoly** provides a rich and engaging opportunity for children to practice a variety of math concepts in a fun and interactive way.

## Money Management

### 1.Counting and Exchanging Money

- Counting bills accurately when making payments or receiving change.
- Exchanging denominations (e.g., trading a \$500 bill for smaller ones).

### 2.Budgeting

- Managing limited resources to decide what to spend, save, or invest.





Playing **Monopoly** provides a rich and engaging opportunity for children to practice a variety of math concepts in a fun and interactive way.

## Fractions

### 1. Fractions

- Understanding partial payments (e.g., mortgage values are half the property cost).





Playing **Monopoly** provides a rich and engaging opportunity for children to practice a variety of math concepts in a fun and interactive way.

## Geometry

### 1. Board Layout and Movement

- Navigating the board using spatial awareness and counting spaces based on dice rolls.



# How Math can be made fun to learn at home

## 2. Incorporate Math in Everyday Life

- Shopping
- Cooking







A shopping trip to the supermarket offers numerous opportunities for children to explore and learn a variety of math concepts in a real-world context.

### Basic Arithmetic

#### **1.Addition and Subtraction**

- 1.Adding the prices of items in the cart.
- 2.Subtracting discounts or comparing prices.

#### **2.Multiplication**

- 1.Calculating the cost of multiple units of an item (e.g., 3 apples at \$0.50 each).

#### **3.Division**

- 1.Dividing a bulk package into smaller portions to find the price per unit.





A shopping trip to the supermarket offers numerous opportunities for children to explore and learn a variety of math concepts in a real-world context.

## **Money Concepts**

### **1. Counting Money**

Identifying and counting coins and bills.

### **2. Making Change**

Figuring out how much change they would get after a purchase.

### **3. Budgeting**

Deciding how to spend a fixed amount of money wisely.





A shopping trip to the supermarket offers numerous opportunities for children to explore and learn a variety of math concepts in a real-world context.

## Fractions

### 1. Understanding Fractions

Reading labels (e.g., " $\frac{1}{4}$  cup" or "half a dozen").





A shopping trip to the supermarket offers numerous opportunities for children to explore and learn a variety of math concepts in a real-world context.

## **Measurement**

### **1. Weights and Volumes**

Using scales for produce or reading package weights.

### **2. Estimating**

Guessing the weight or quantity before measuring.





A shopping trip to the supermarket offers numerous opportunities for children to explore and learn a variety of math concepts in a real-world context.

## **Geometry**

### **1. Shapes and Sizes**

Identifying the shapes of packages or products.

### **2. Spatial Awareness**

Arranging items in the cart or bags to maximize space.





A shopping trip to the supermarket offers numerous opportunities for children to explore and learn a variety of math concepts in a real-world context.

## **Time Management**

### **1. Estimating Time**

Predicting how long it will take to shop.

### **2. Speed Calculations**

Calculating how fast they need to move to finish by a specific time.





#### 4. Be a Supportive Guide

- **Encourage positive self-talk:**  
Instead of saying "I'm bad at math," encourage phrases like "I can get better with practice."
- **Praise effort, not just results:**  
Focus on the process and hard work rather than just the correct answer.
- **Model perseverance:**  
Show your child that it's okay to make mistakes and that persistence leads to improvement.



# SBB Matters



# SBB Math Exam Format

**Duration: 1 hour 45 minutes**

| <b>Booklet</b> | <b>Item type</b>                | <b>No. of questions</b> | <b>Mark per question</b> |
|----------------|---------------------------------|-------------------------|--------------------------|
| <b>A</b>       | <b>MCQ</b><br>(Multiple Choice) | <b>15</b>               | <b>2m</b>                |
| <b>B</b>       | <b>SAQ</b><br>(Short-Answer)    | <b>22</b>               | <b>2m</b>                |
|                | <b>LAQ</b><br>(Long-Answer)     | <b>8</b>                | <b>3m, 4m</b>            |
| <b>Total</b>   |                                 | <b>100</b>              | <b>-</b>                 |

**70% of the overall marks for P4 SBB**

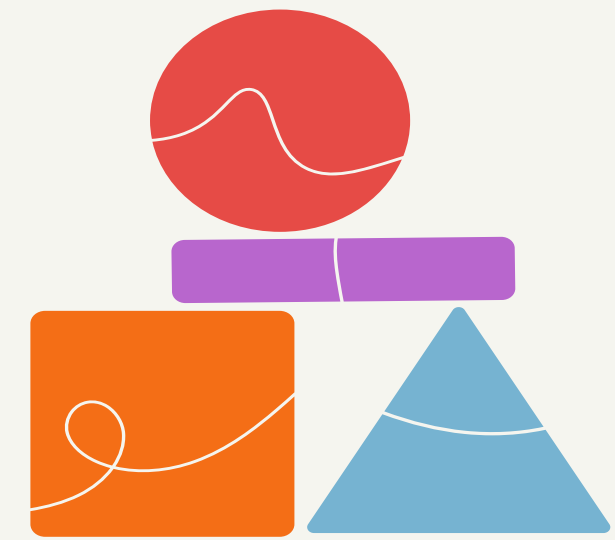




# STAR approach in Problem Solving

How do you solve a  
Mathematics problem?

- ☐ **S**tudy the problem carefully
- ☐ **T**hink of a strategy
- ☐ **A**ct on the solution
- ☐ **R**eflect on the final answer





# Types of the questions

## **1. Recall and perform computation**

Recall mathematical facts, concepts, rules and formulae; perform straightforward computations



# Recall and perform computation

## Example 1

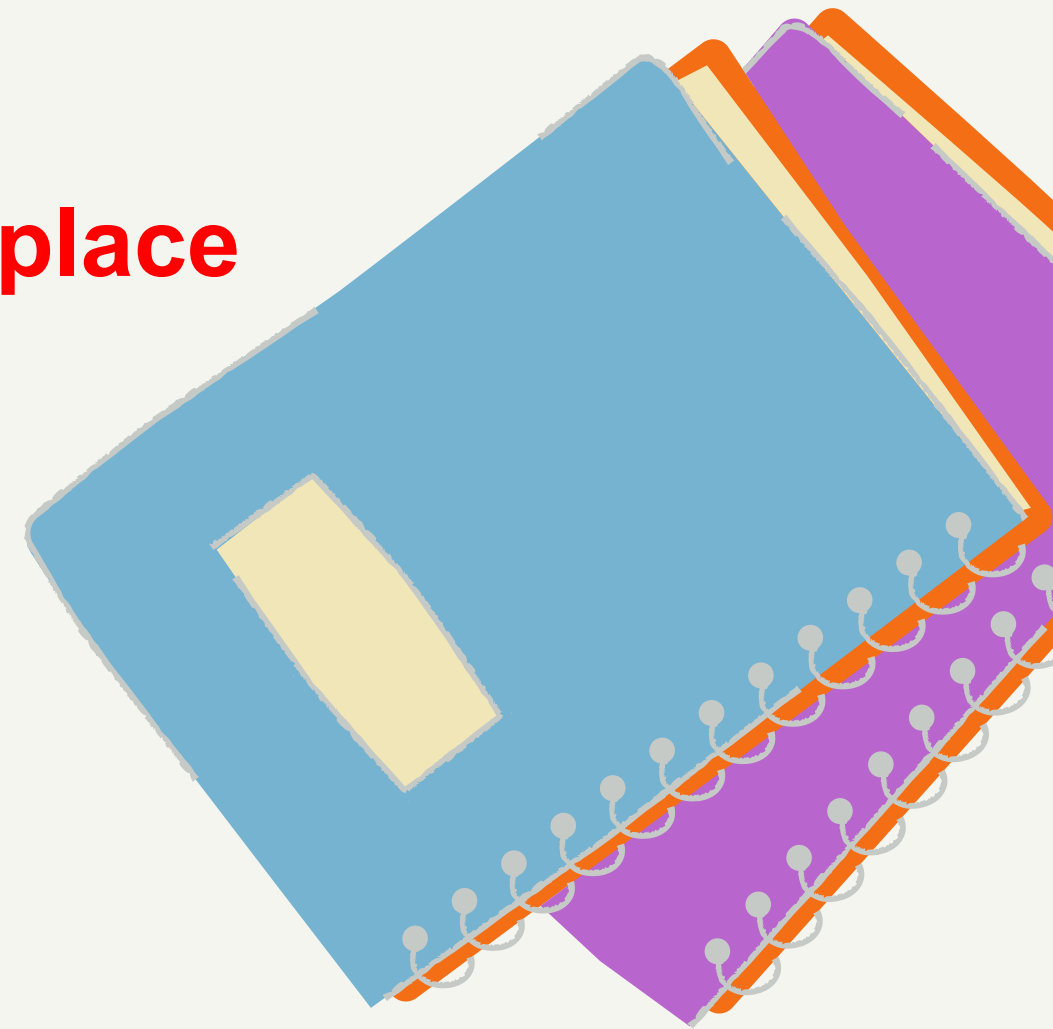
Digit 2 is in ten thousands place

What is the value of digit 2 in 23 576?

- (1) 20
- (2) 200
- (3) 2000
- (4) 20 000

**Skills required:**

**- Recall whole numbers place value**





# Recall and perform computation

## Example 2

There are 318 boxes of pencils.

Number of groups

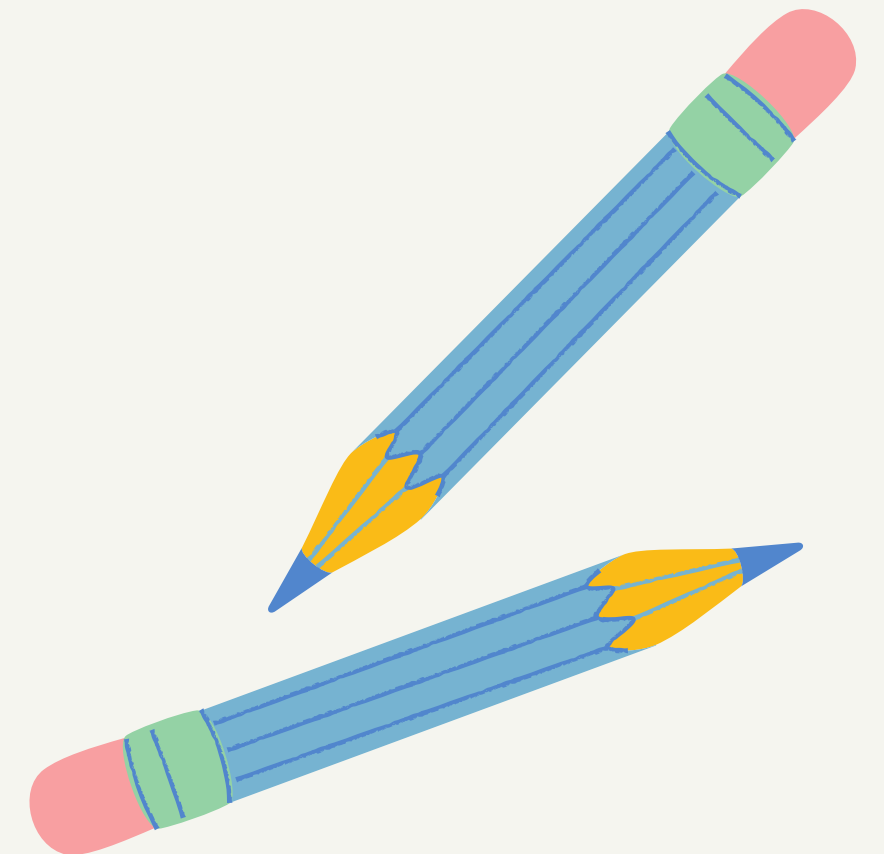
Each box has 16 pencils.

Number of items in each group

How many pencils are there altogether?

**Skills required:**

- Recall concept of grouping





# Types of the questions

## **1. Recall and perform computation**

Recall mathematical facts, concepts, rules and formulae; perform straightforward computations

## **2. Understand and apply**

Interpret information; understand and apply mathematical concepts and skills in a variety of contexts.



# Understand and apply

## Example 3

Alex spent **amount spent** \$24 on food and saved the remaining **amount saved** \$6.

What fraction of his total money did he save?

- (1)  $\frac{1}{4}$
- (2)  $\frac{1}{5}$
- (3)  $\frac{4}{5}$
- (4)  $\frac{3}{4}$

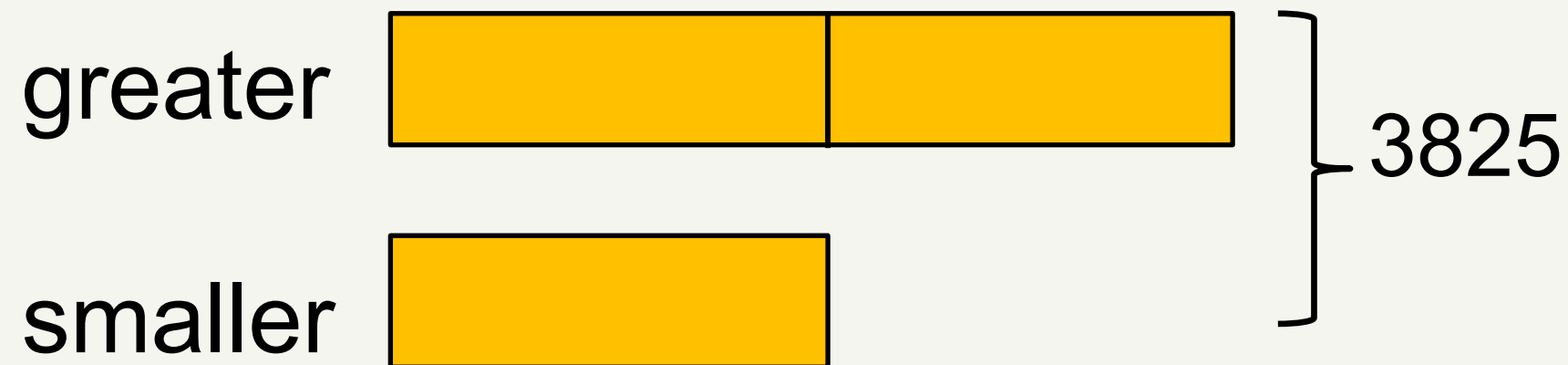
### Skills required:

- Recall concept of  
whole = part + part
- Recall on  $\frac{\textit{part}}{\textit{whole}}$

# Understand and apply

## Example 4

The sum of two numbers is 3825. The greater number is twice as much as the smaller number. What is the greater number?



**Skills required:**

- Recall concept of units



# Types of the questions

## **1. Recall and perform computation**

Recall mathematical facts, concepts, rules and formulae; perform straightforward computations

## **2. Understand and apply**

Interpret information; understand and apply mathematical concepts and skills in a variety of contexts.

## **3. Reason and analyse**

Reason mathematically; analyse information and make inferences; select appropriate strategies to solve problems

# Reason and analyse

## Example 5

Skills required:

- Recall concept of multiples

Mr Tan shared some coins with a group of children.  
If he gave 8 coins to each child, he would have 3 coins left.  
If he gave 9 coins to each child, he needed 2 more coins.  
How many coins did Mr Tan have?

|                    | 1  | 2  | 3  | 4  | 5  |       |
|--------------------|----|----|----|----|----|-------|
| Multiples of 8     | 8  | 16 | 24 | 32 | 40 | ..... |
| 3 coins left (+3): | 11 | 19 | 27 | 36 | 43 | ..... |
| Multiples of 9     | 9  | 18 | 27 | 36 | 45 | ..... |
| Need 2 coins (-2): | 7  | 16 | 25 | 34 | 43 | ..... |





# 1. Transfer error

Example:  $9 \times \$12 = \$108$

$\$180 \div 2 = \$90$

Mr Ali has \$9.

## Student's Common Mistakes





## 2. Omission or incorrect units of measurement

Example:

- ✓ 1 km = 100 m  
(Wrong fact)
- ✓ The volume of the water is 200. (Missing unit)

**Student's  
Common  
Mistakes**



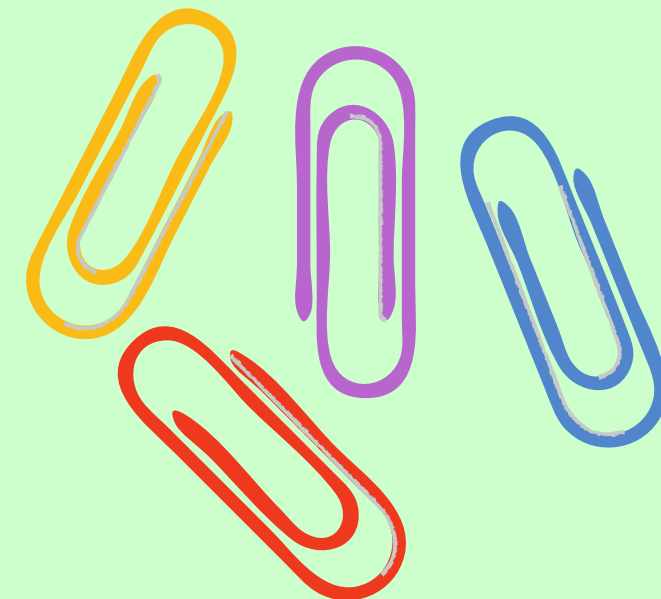
### 3. Writing incorrect Math equations

Example:  $\underline{20 + 10} = 30 + 5 = \underline{35}$

not equal

(Wrong equations as the 2 steps are combined into one)

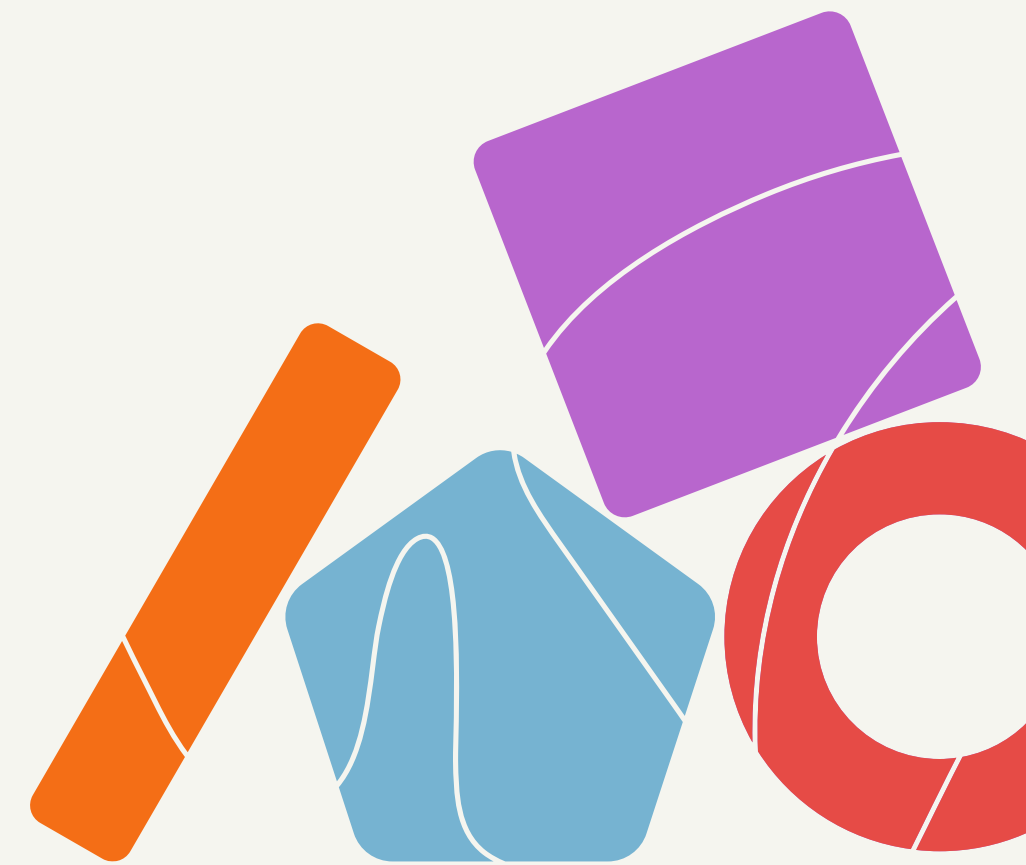
**Student's  
Common  
Mistakes**





# How To Do Well in Examination

- ✓ Underline and annotate important information in word problems.
- ✓ Do not dwell too long on a question. Skip questions when unsure of the approach to solve the question and return to complete them later.
- ✓ Attempt all questions.
- ✓ Show all the Math equations and workings.
- ✓ Check the accuracy of the calculations.



# It is important to take note that

- An AL8 in PSLE Math is why our Shuqunites need to repeat P6. (They are able to clear EL).
- Math is the foundation of many courses in Secondary School, Polytechnic, JC and beyond.

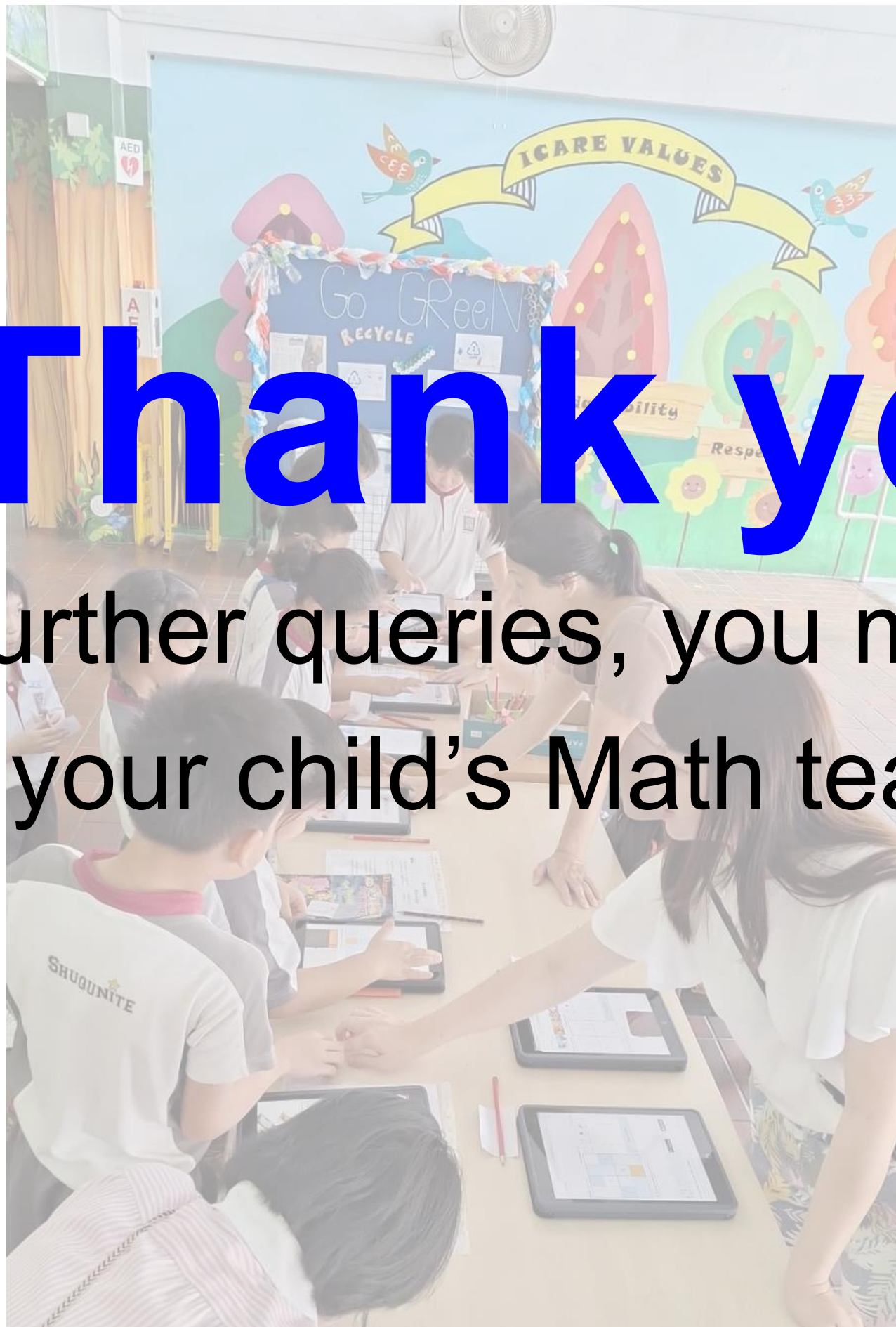




**MATHEMATICS**  
is not about  
numbers, equations,  
computations, or  
algorithms:  
it is about  
**UNDERSTANDING.**

*William Paul Thurston*





# Thank you

For further queries, you may consult  
your child's Math teacher.