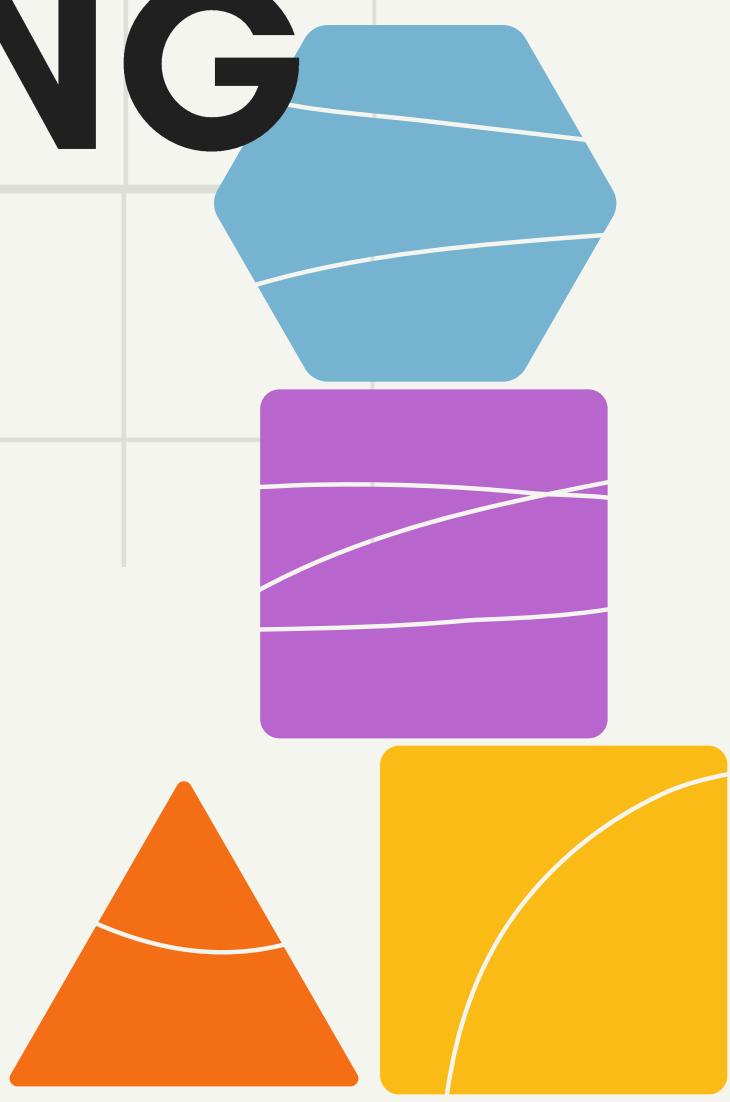
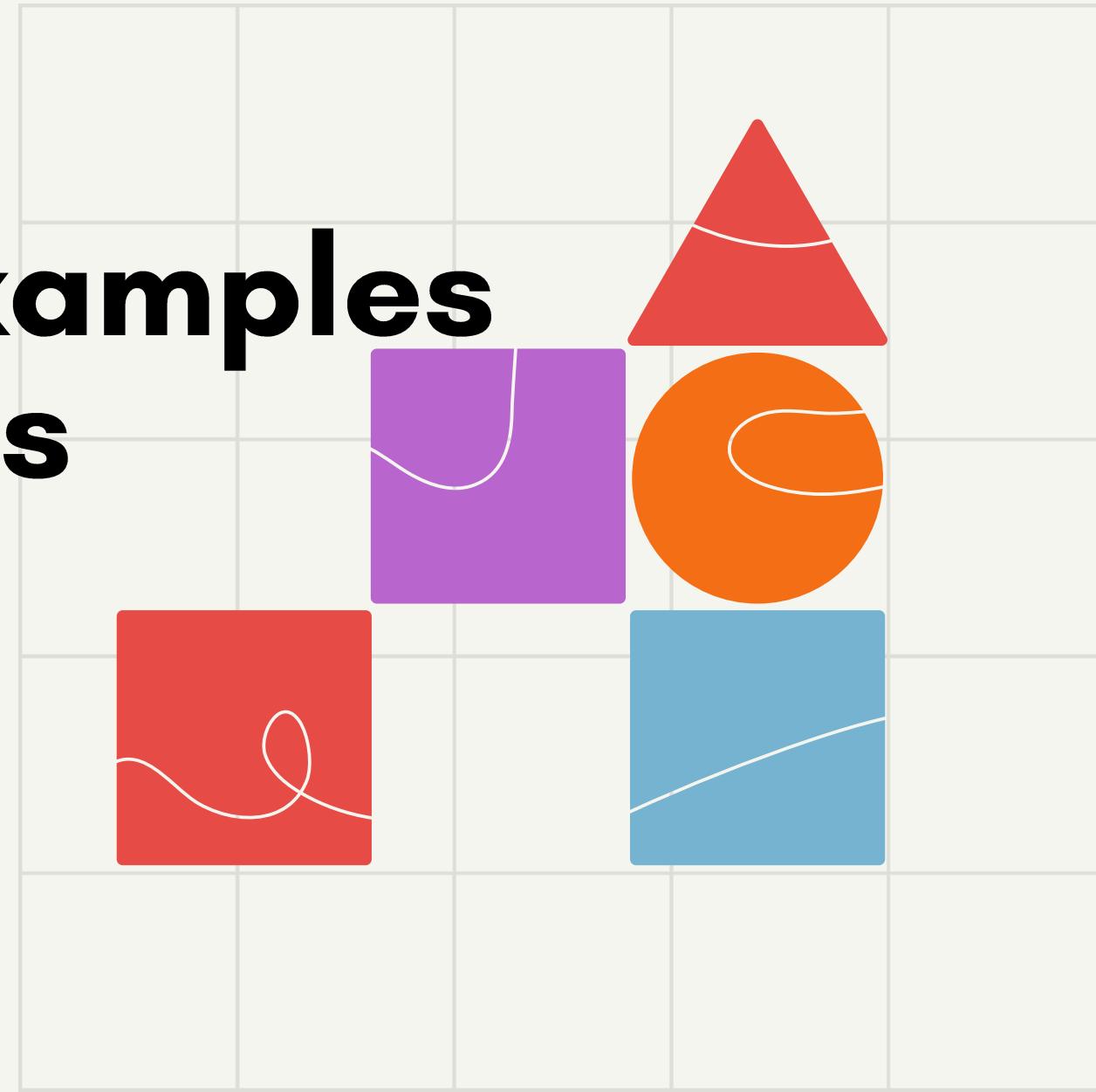


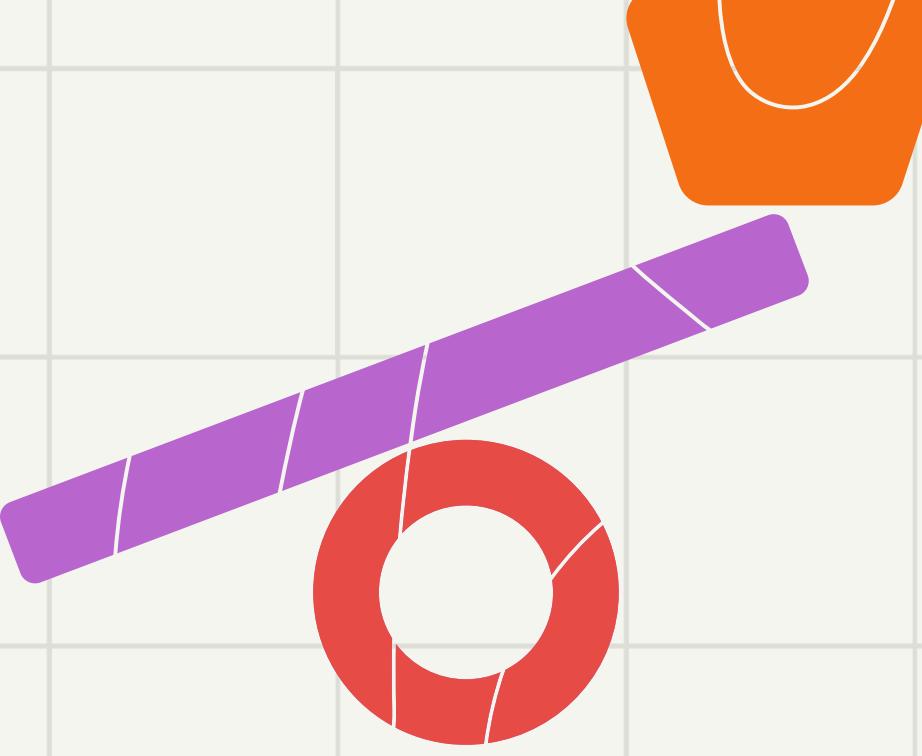
**MATHEMATICS**  
**SUBJECT-BASED BANDING**  
**BRIEFING**  
**2026**



# 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

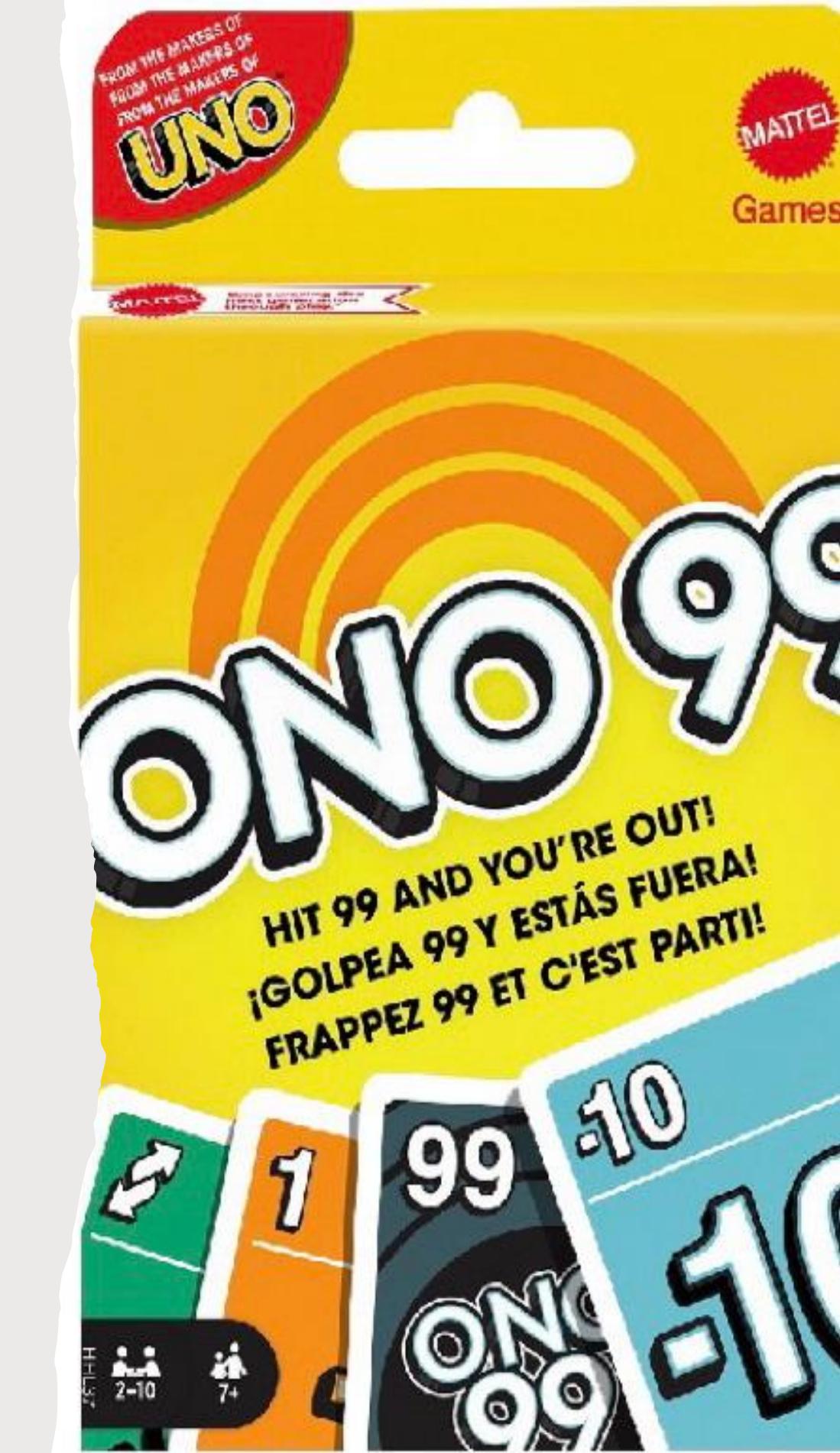
• LittleYellowStar



# 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., "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**

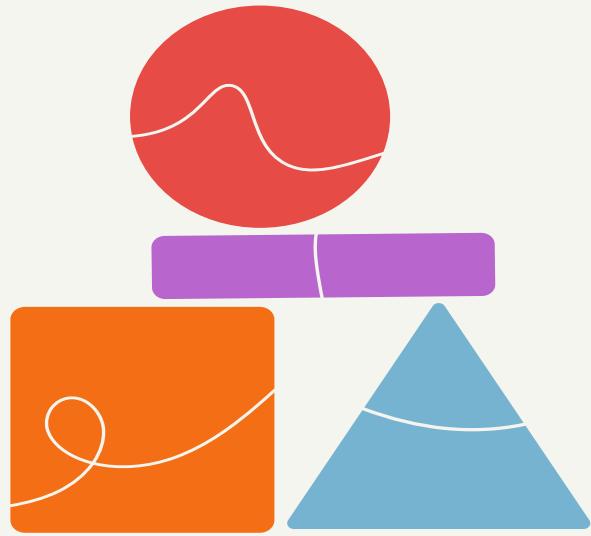
<b>Booklet</b>	<b>Item type</b>	<b>No. of questions</b>	<b>Mark per question</b>
A	<b>MCQ</b> (Multiple Choice)	15	2m
B	<b>SAQ</b> (Short-Answer)	22	2m
	<b>LAQ</b> (Long-Answer)	8	3m, 4m
<b>Total</b>		100	-

**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

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## 1. Recall and perform computation

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

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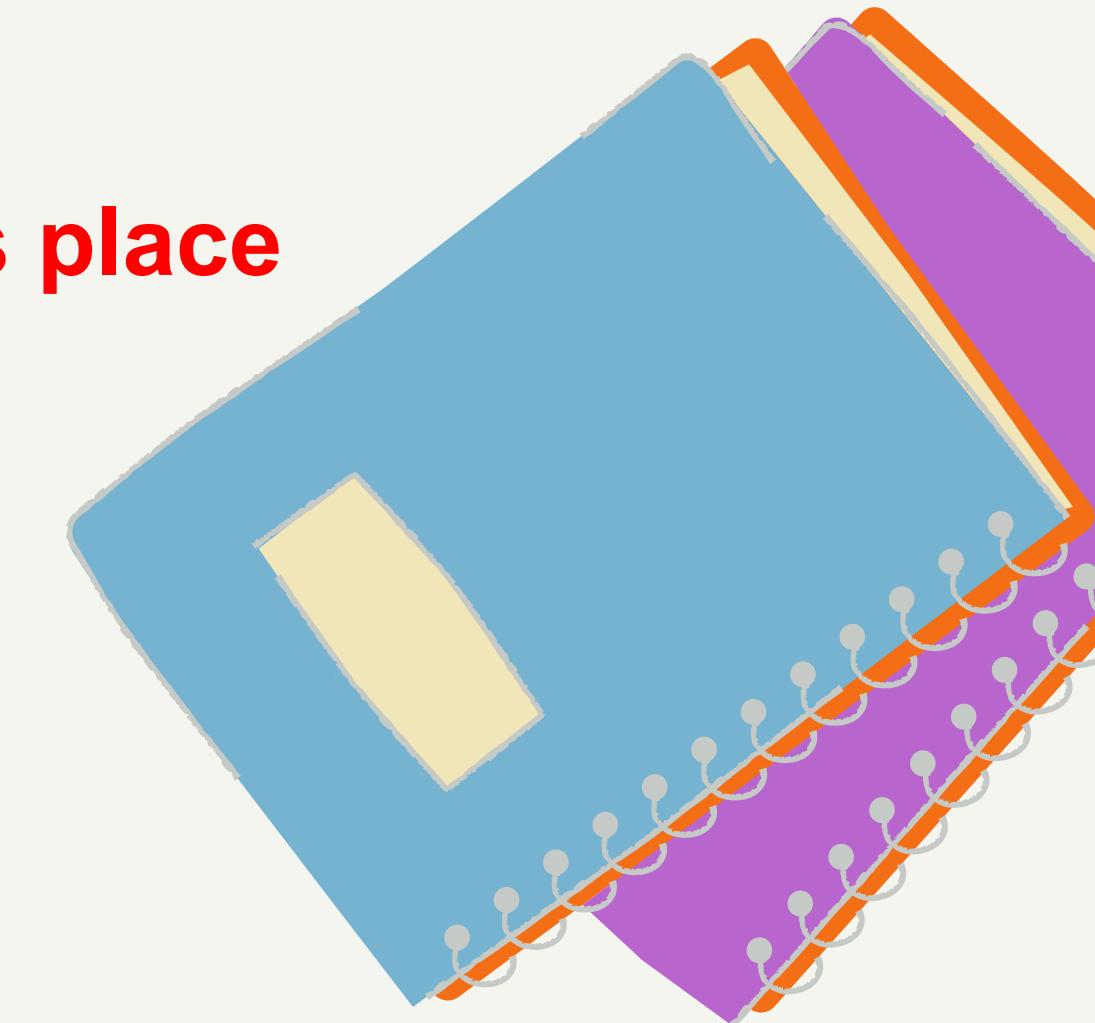
# Recall and perform computation

## 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

**Number of groups**

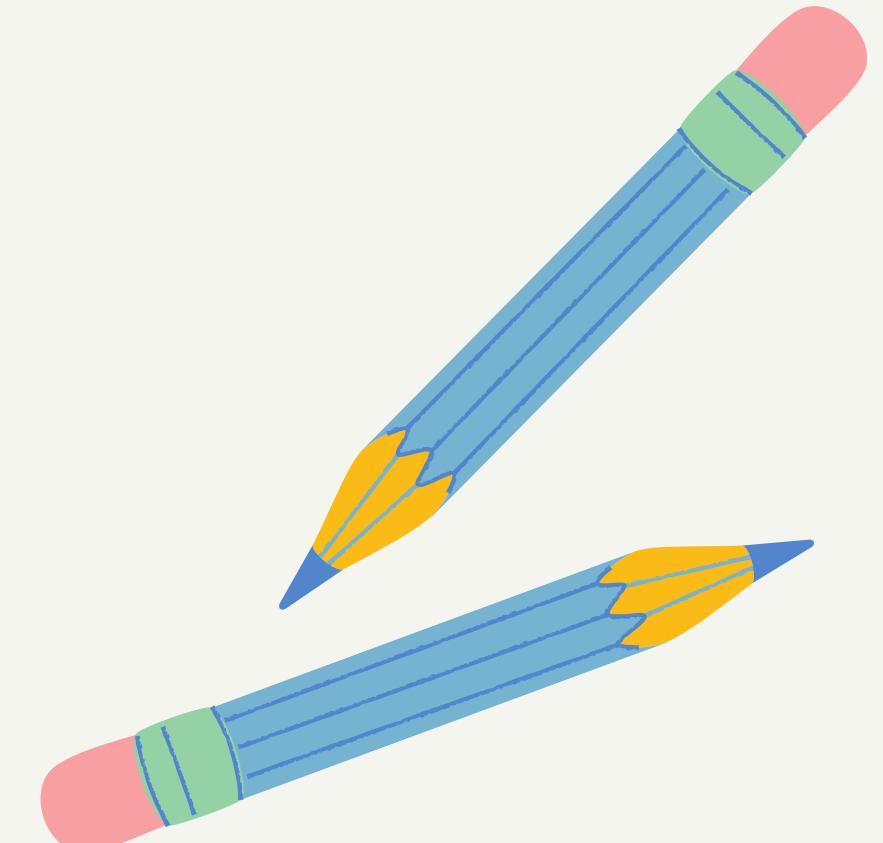
There are 318 boxes of pencils.

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 \$24 on food and saved the remaining \$6.

*amount spent*

*amount saved*

What fraction of his total money did he save?

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

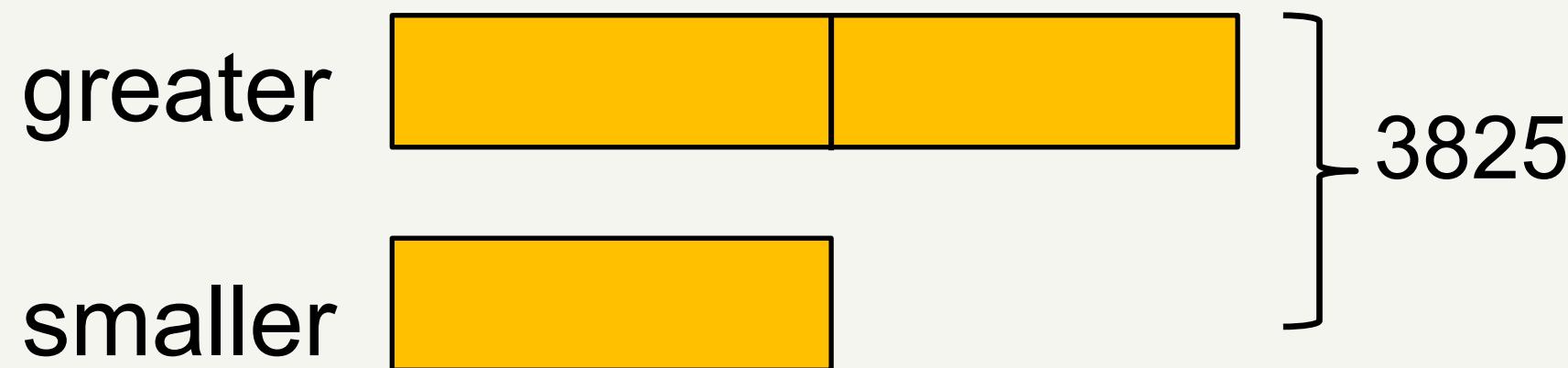
### Skills required:

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

# 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.

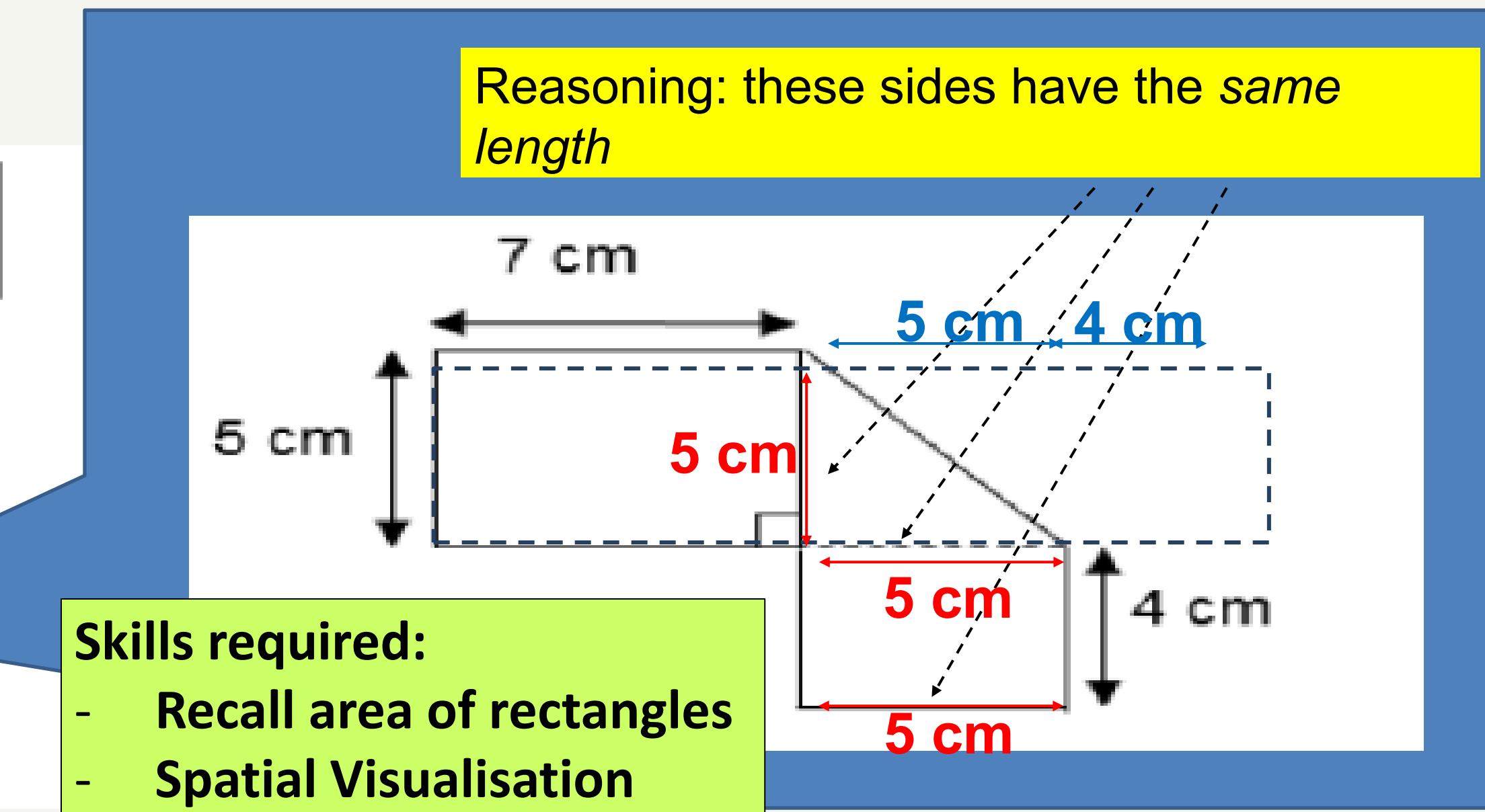
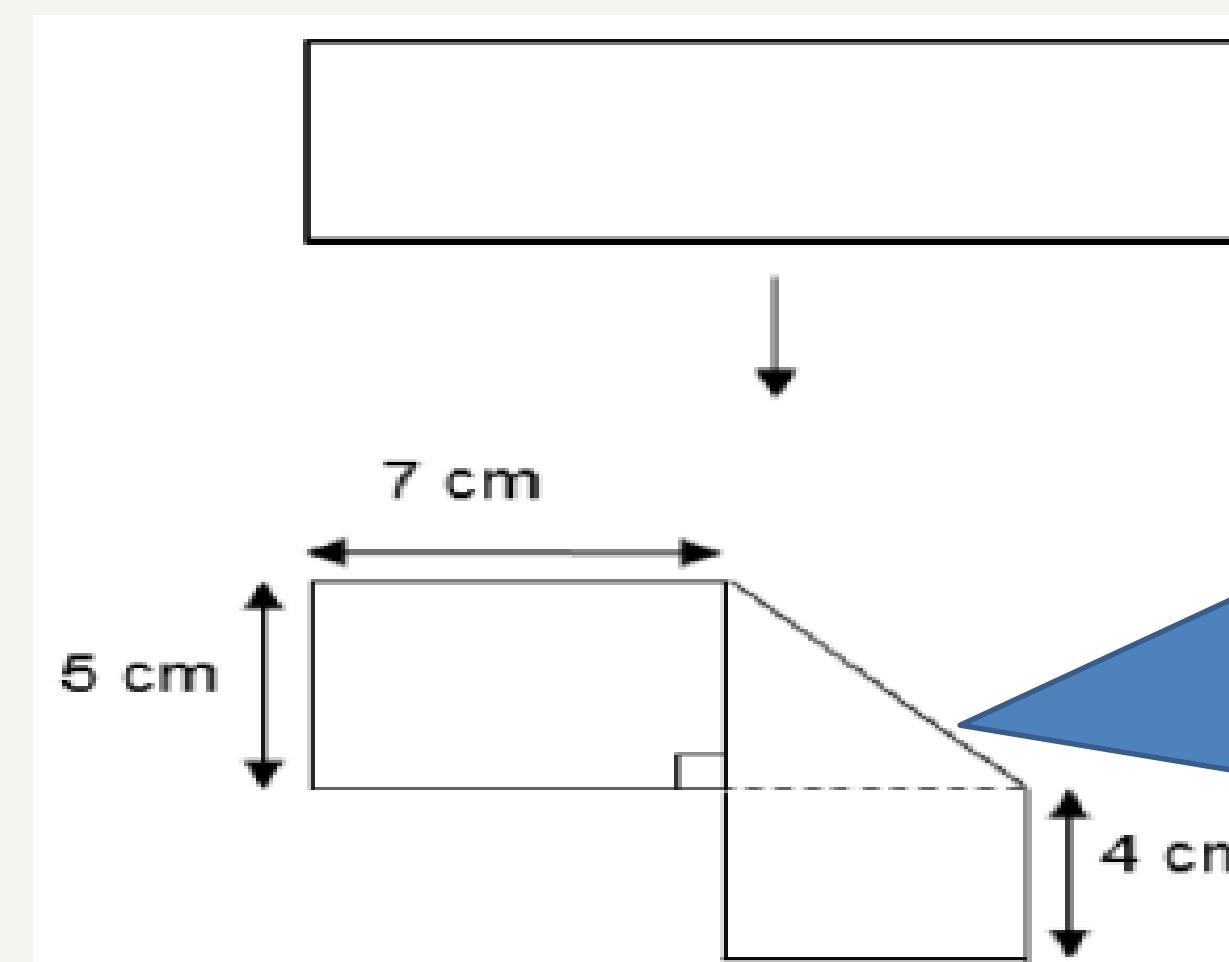
How many coins did Mr Tan have?

	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	.....

# Reason and analyse

## Example 6

A rectangular piece of paper is folded to form the shape shown below. What is the area of the rectangular piece of paper before it was folded?



## 1. Transfer error

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

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

Mr Ali has \$9.

# Student's Common Mistakes

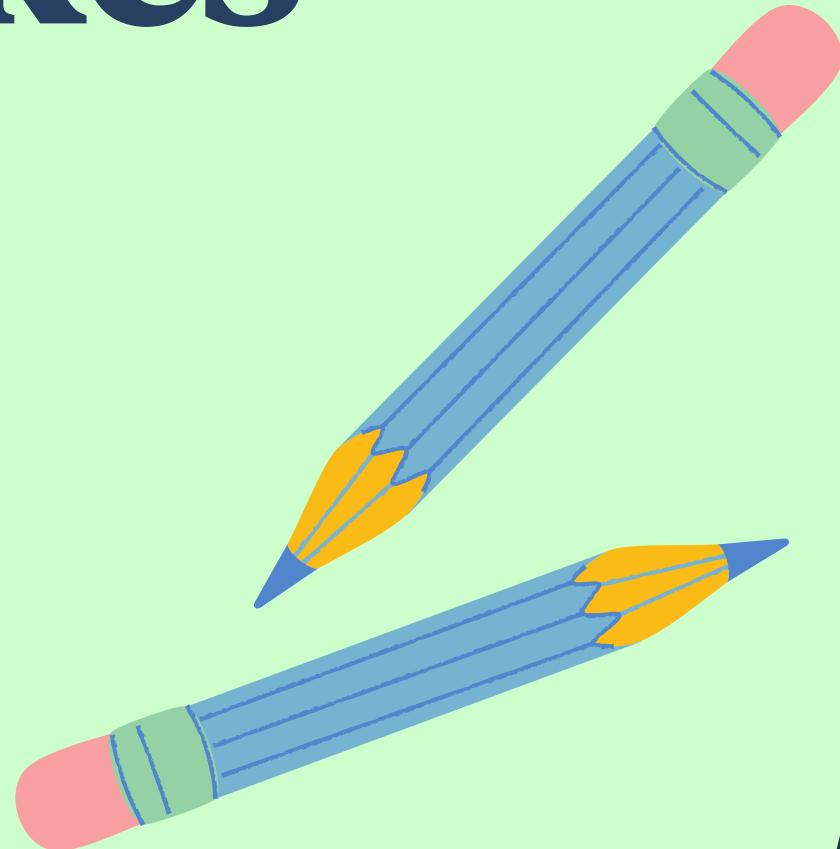


## 2. Omission or incorrect units of measurement

Example:

- ✓  $1 \text{ km} = 100 \text{ m}$   
*(Wrong fact)*
- ✓ The volume of the water  
is 200. *(Missing unit)*

# Student's Common Mistakes



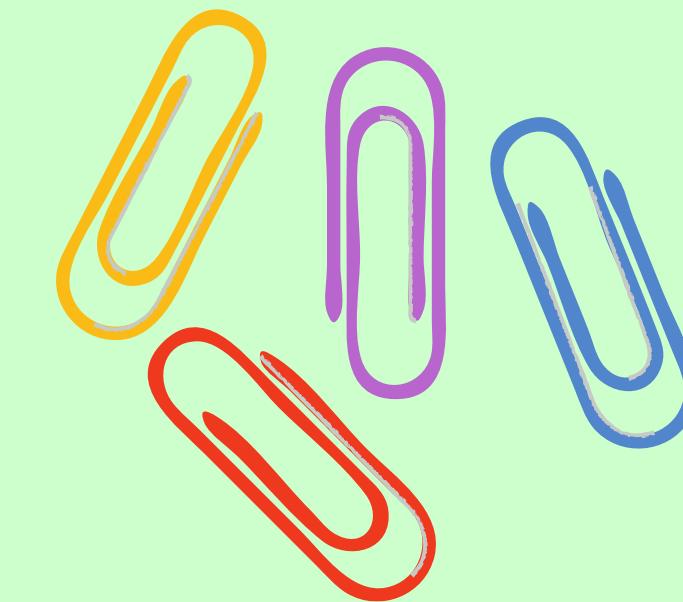
### 3. Writing incorrect Math equations

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

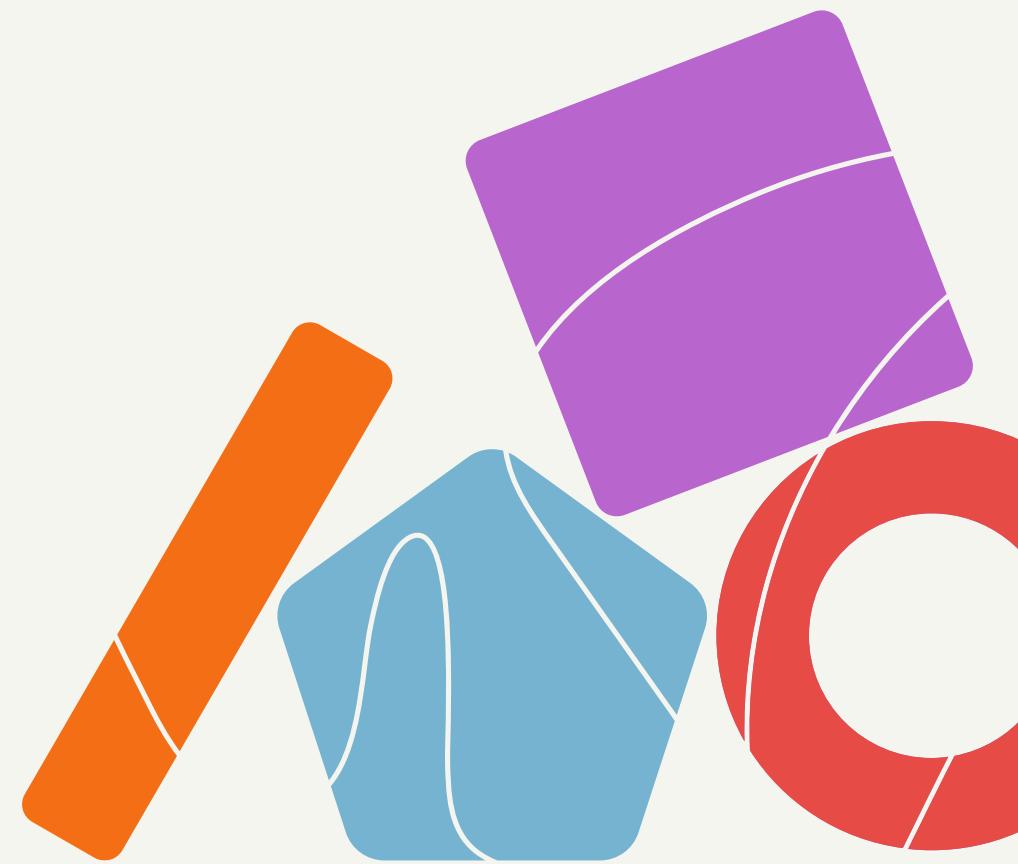
- ✓ Underline and annotate important information in word problems.
- ✓ Do not dwell too long on a question. Skip questions when unsure of the approach to solve the question and return to complete them later.
- ✓ Attempt all questions.
- ✓ Show all the Math equations and workings.
- ✓ Check the accuracy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



# It is important to take note that

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- An AL8 in PSLE Math is why our Shuquunites 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



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

