

Primary 5 & Primary 6 Assessment and Curriculum Sharing

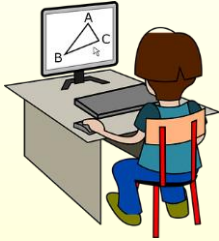


Mathematics





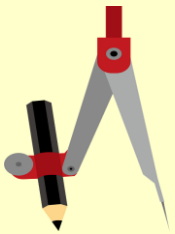
Mathematics Curriculum Framework



Assessment Matters for Pri 5 and 6 Mathematics



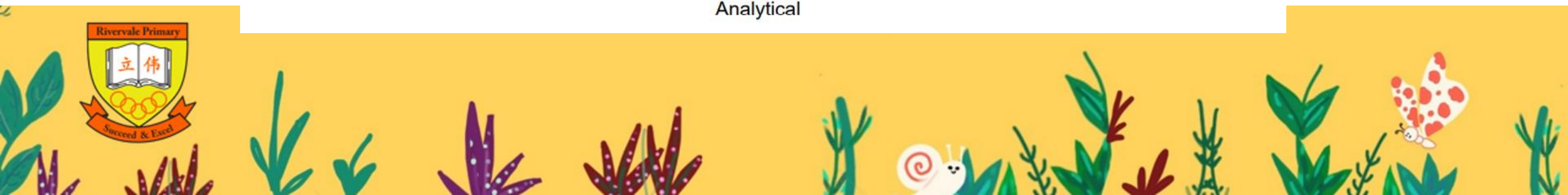
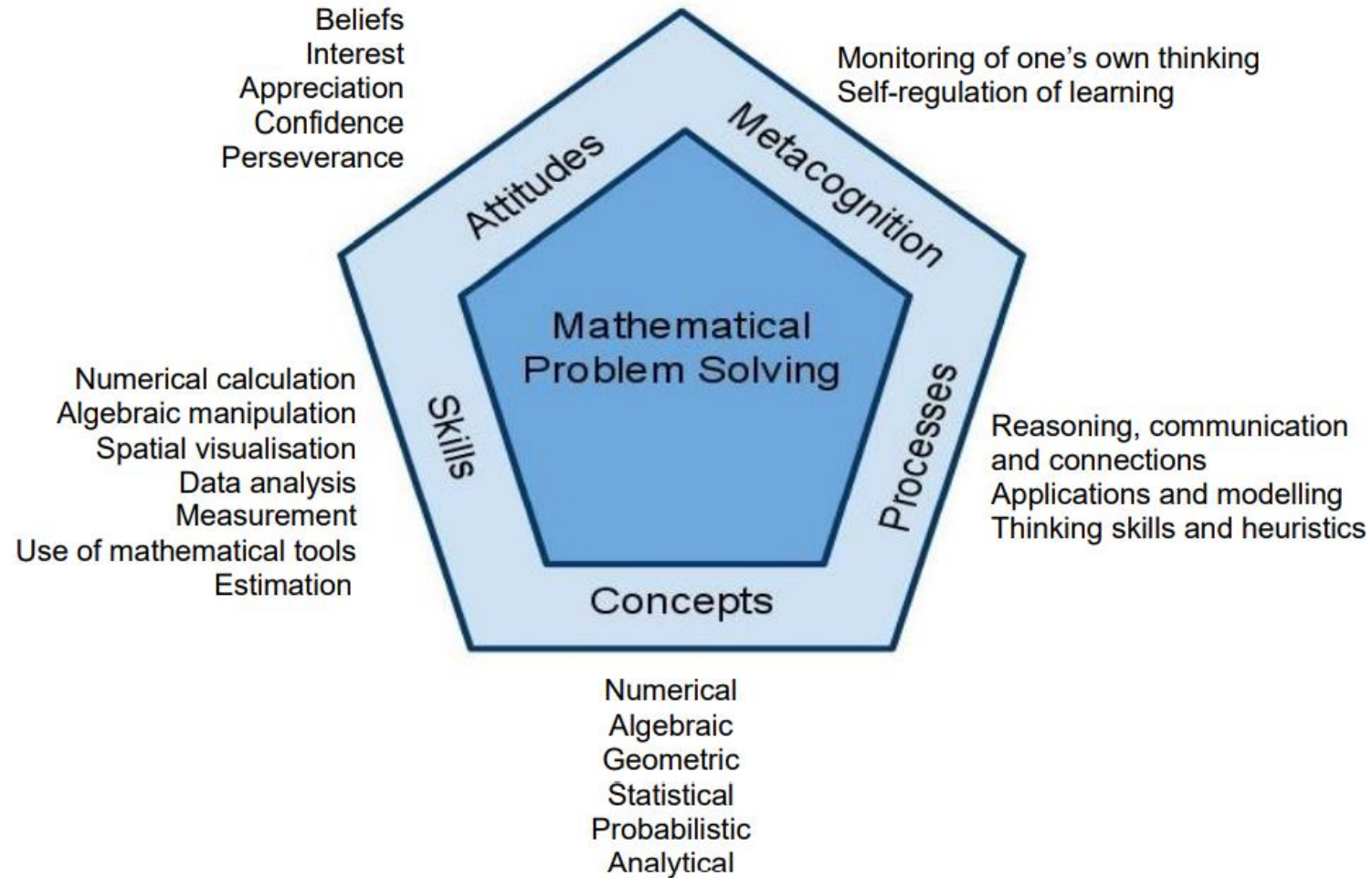
Learning Mathematics at Rivervale



Strategies to support students in learning Mathematics



Mathematics Curriculum Framework



Assessment Matters



Assessment Matters for **Standard** Mathematics



Assessment Format for Standard Mathematics

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h
			5	2	10	
	B	Short-answer	5	1	5	
			10	2	20	
2		Short-answer	5	2	10	1 h 30 min
		Structured/ Long-answer	12	3, 4 or 5	45	
Total			47	-	100	2 h 30 min



Assessment Matters for **Foundation** Mathematics



Assessment Format for Foundation Mathematics

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h
			10	2	20	
	B	Short-answer	10	2	20	
2		Short-answer	10	2	20	1 h
		Structured	6	3 or 4	20	
Total			46	-	90	2 h



Learning Mathematics @ Rivervale

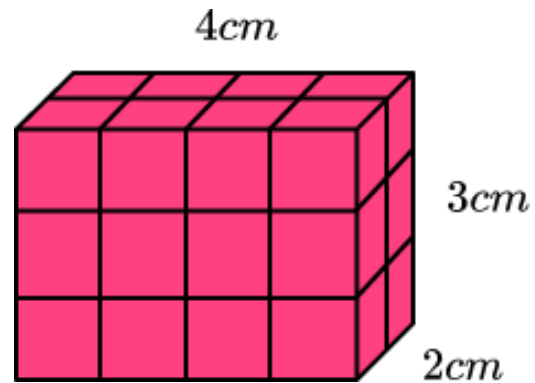


Concrete-Pictorial-Abstract (C-P-A) Approach

Concrete



Pictorial



Abstract

A rectangular tank has a square base with sides 6 m each. The height of the tank is 9 m. Find the capacity of the tank.

S

Study the problem

(CUB)

- **Circle** the numbers
- **Underline** the keywords
- **Box up** the question

T

Think of a strategy

- Draw models
- Draw diagrams
- Draw a table
- Listing
- Guess and Check
- Act it out
- Work backwards
- Simplify the problem

A

Act out the strategy

R

Review the solution

(CURT)

- **Calculations**
- **Units**
- **Reasonable**
- **Transference**

P1 MATH CARNIVAL BY P6

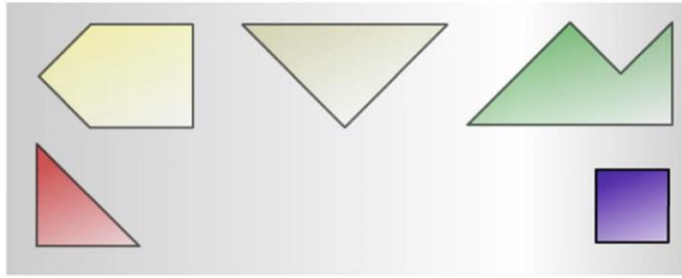
To appreciate the application of
Mathematics concepts and skills outside
the classroom

To instill the joy of learning Mathematics



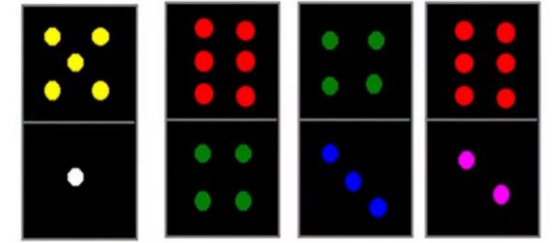
Math Trail

Tangram challenge

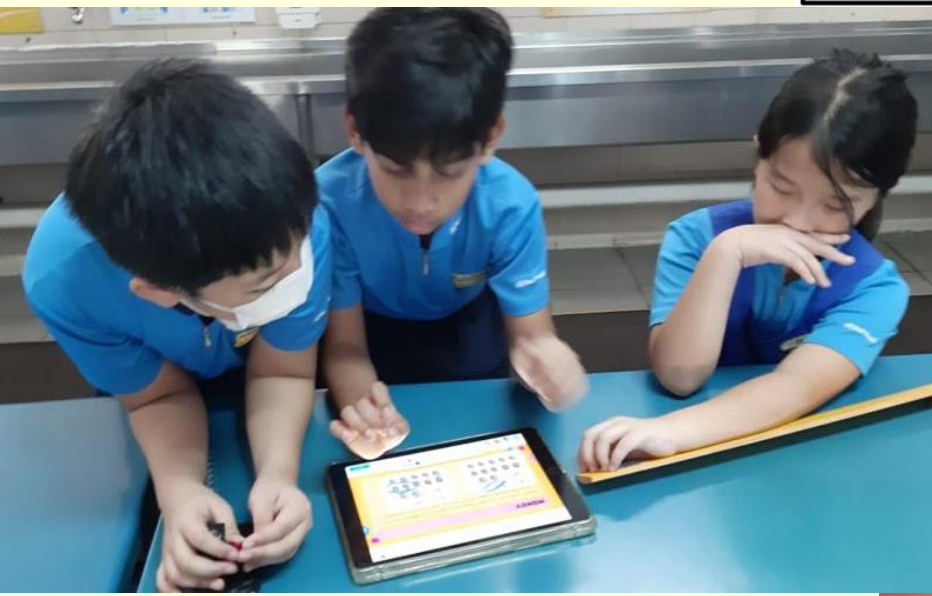


Make a square using all 5 pieces of this tangram

Dominoes Challenge



Use these dominoes to create a square with the same number of dots on each side!



How to support your child in learning Mathematics



What Can I Do As A Parent?

- Active involvement in child's school work

Ask your child to talk about and teach you math.

Use math with your child in daily life.

Communicate with your child's teacher.

Promote a positive attitude to math. Develop a growth mindset.

Ensure that homework is completed neatly and all doubts clarified.



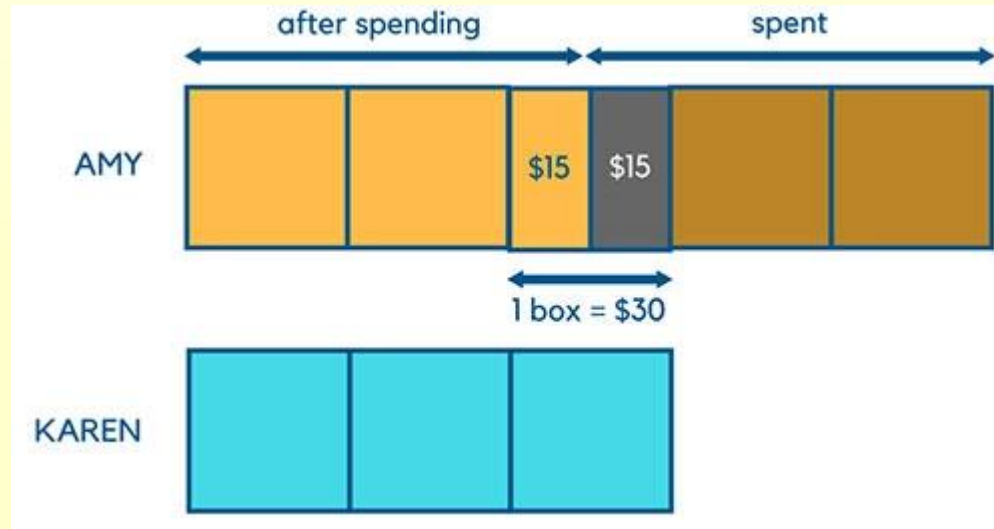
Strategies to support students in learning Mathematics

- 1 Master basic arithmetic skills – Mathematical Fluency**
- 2 Practise, practise and practise (and check): Set time limit**
- 3 Review mistakes and LEARN from mistakes:**
 - misread, transfer error,
 - computational/precision errors,
 - conceptual understanding
 - E.g.: look through Topical Review worksheets, workbook



How to study Mathematics?

- 4 Allow students to struggle in problem solving, focusing on model drawing as one of the key tools.





• Encourage self-directed learning



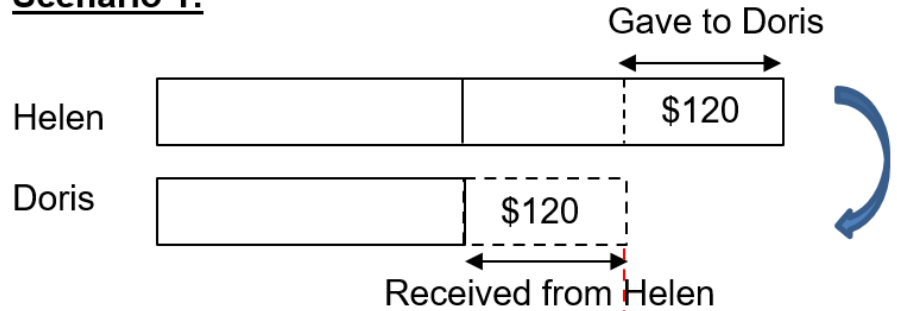
Communicating effectively in Mathematics



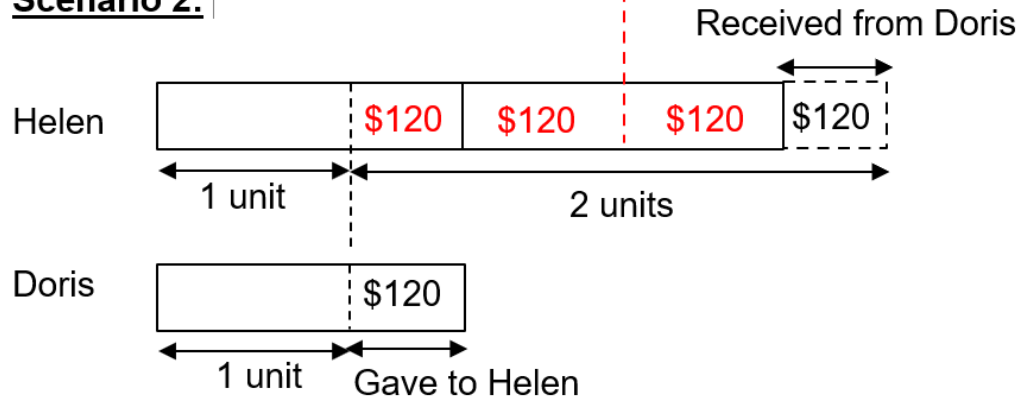
Presentation of solution (Word Problems)

Helen and Doris had some savings each. If Helen gave Doris \$120, both would have the same amount of savings. If Doris gave Helen \$120, Helen would have 3 times as much savings as Doris. How much savings did Helen have?

Scenario 1:



Scenario 2:



$$120 \times 4 = 480$$

$$2 \text{ units} = 480$$

$$1 \text{ unit} = 480 \div 2$$
$$= 240$$

$$\text{Helen's savings at first} = 240 + 120 + 120 + 120$$
$$= 600$$

Ans: **\$600**

Presentation of solutions:

- Order of operations (P5), which affects algebra (P6)

$$(4 + 8) \times 6 + 30 - 8$$

$$= 12 \times 6$$

$$= 72 + 30$$

$$= 108 - 8$$

$$= 100$$



$$(4 + 8) \times 6 + 30 - 8$$

$$= 12 \times 6 + 30 - 8$$

$$= 72 + 30 - 8$$

$$= 108 - 8$$

$$= 100$$



Presentation of solutions:

Arrows for Percentage and Rate

- ✓ Use arrows to express workings when doing questions involving percentage and fractions.

$$20 \% = 80 \quad \times$$

$$20 \% = 0.2 = \frac{20}{100}$$

Right

$$20 \% \rightarrow 80$$

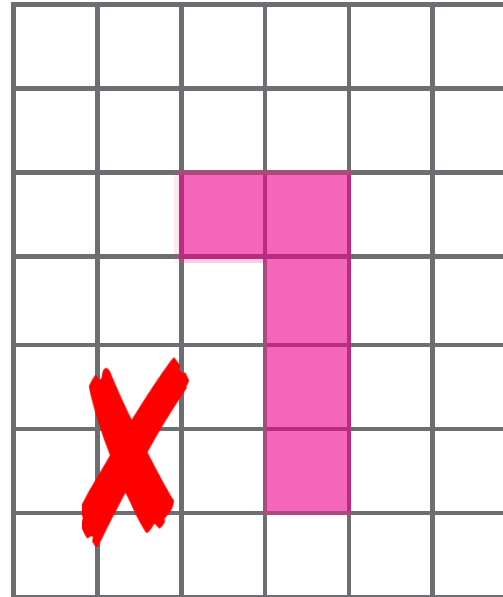
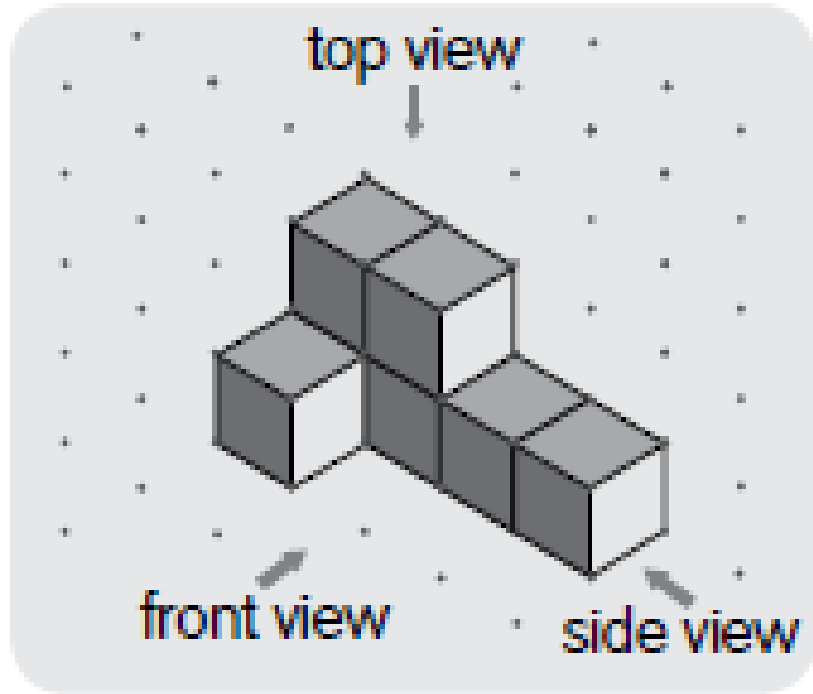


Volume

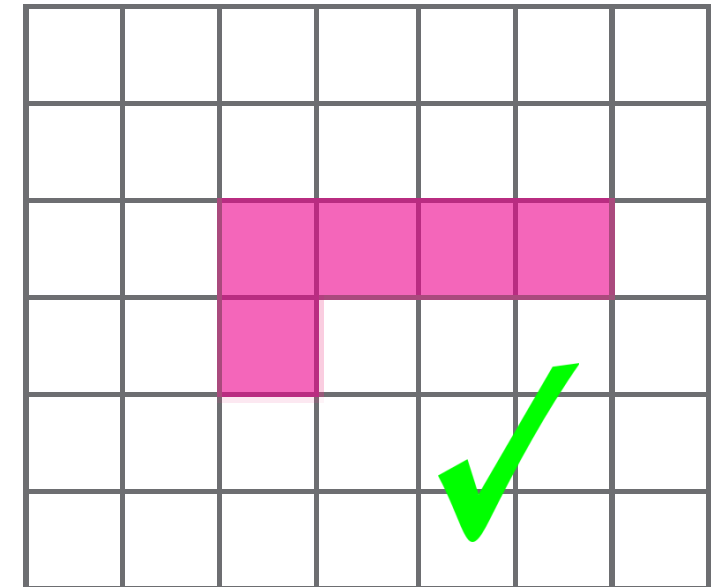
NOTE:

TOP view is always seen from the **FRONT** view

Draw the top view of the solid on square grid.



Top view

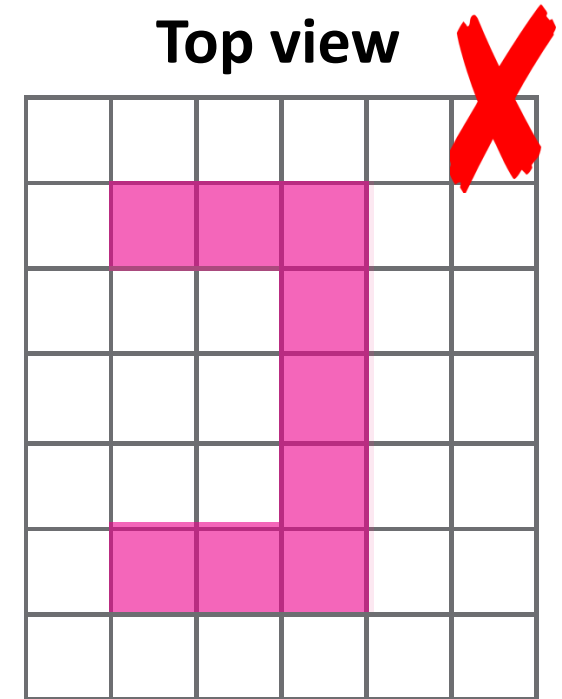
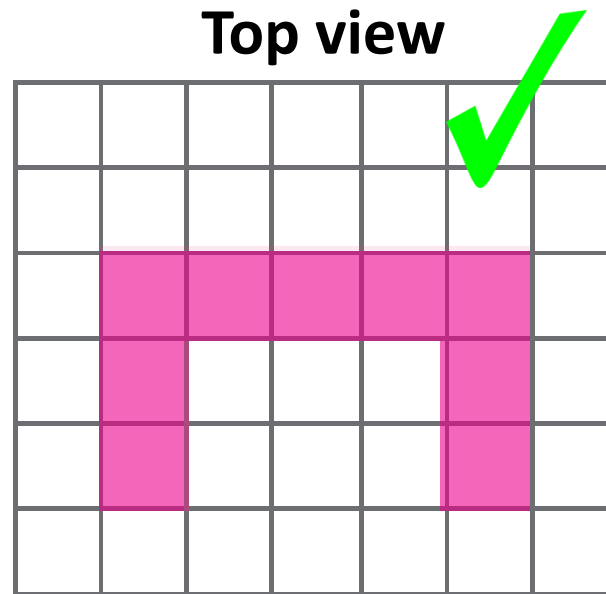
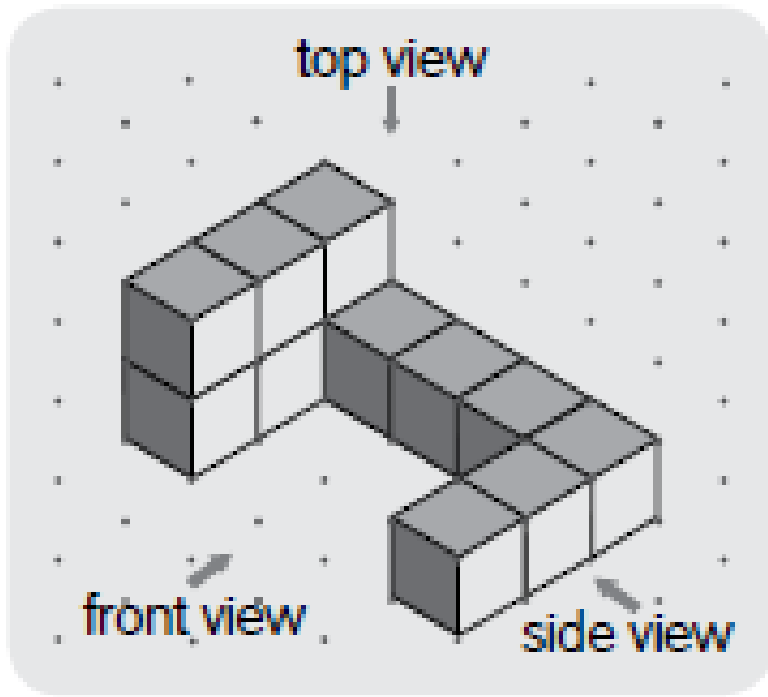


Volume

NOTE:

TOP view is always seen from the **FRONT** view

Draw the top view of the solid on square grid.





Thank You!



FOR YOUR SUPPORT

Rivervale Primary

立伟

Succeed & Excel

