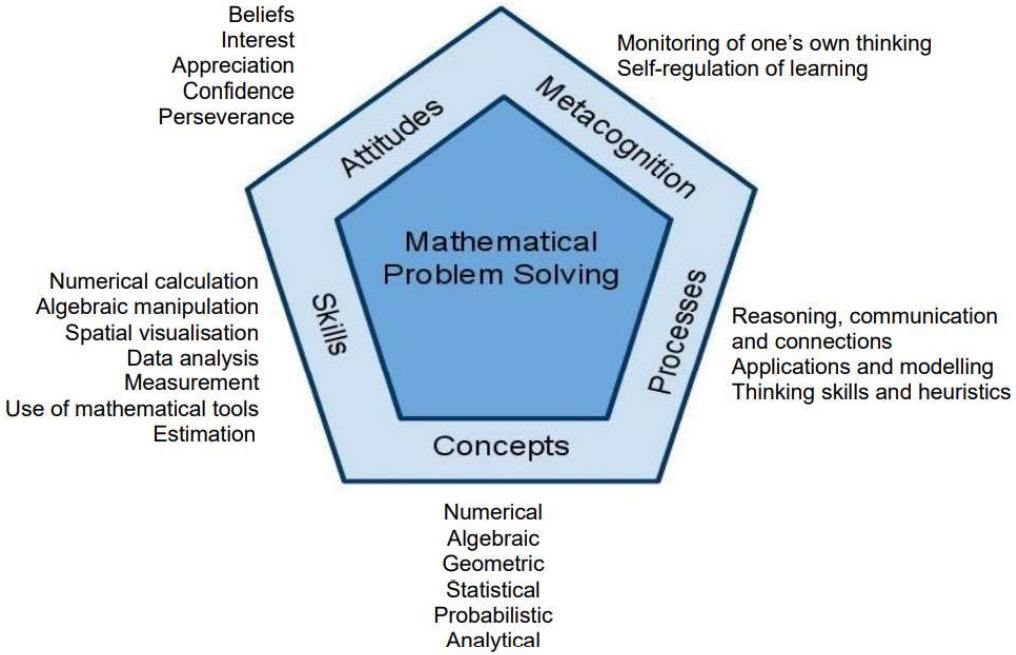
Mathematics sharing for P5 and P6 Parents

- Mathematics Curriculum
- Learning Mathematics at Rivervale
- Strategies to support students in learning Mathematics
- Assessment Matters for Standard Mathematics
- Assessment Matters for Foundation Mathematics

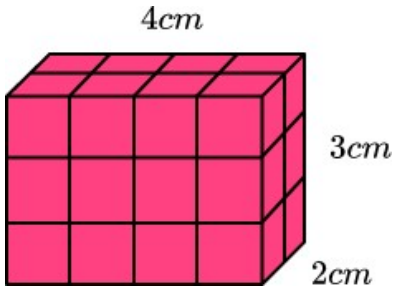
Mathematics Curriculum



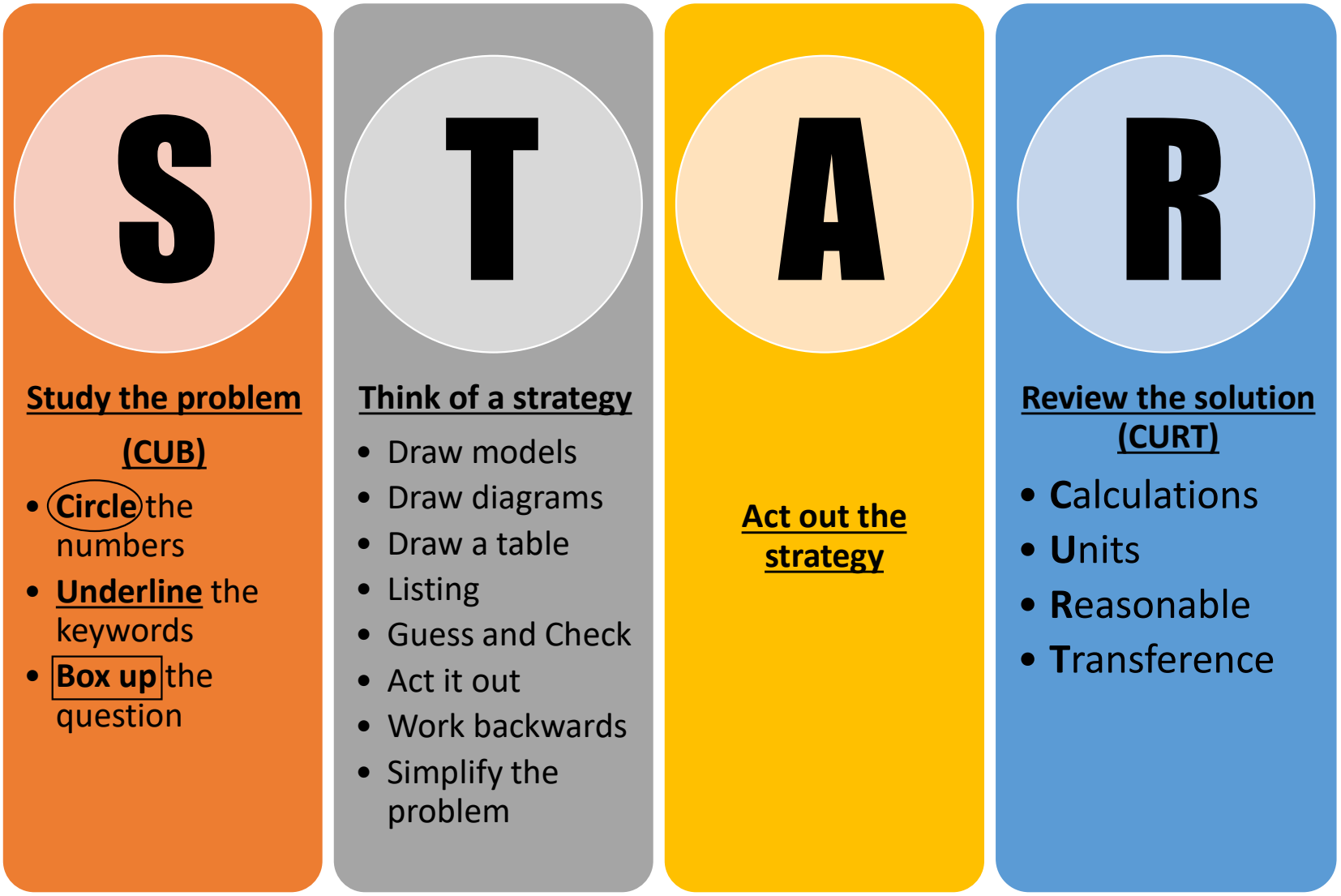
Learning Mathematics @Rivervale

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

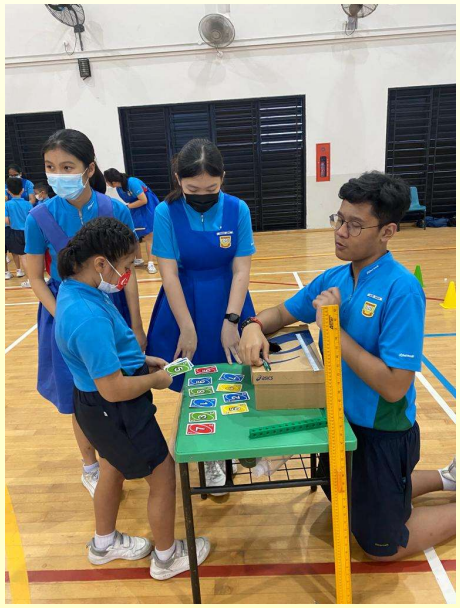
Concrete → **Pictorial** → **Abstract**



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.

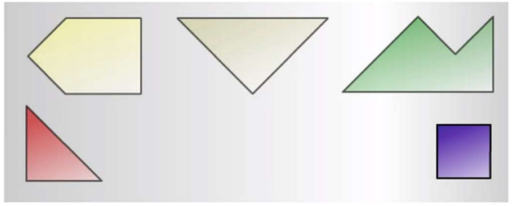

S
Study the problem
(CUB)
• Circle the numbers
• Underline the keywords
• Box up the question
T
Think of a strategy
• Draw models
• Draw diagrams
• Draw a table
• Listing
• Guess and Check
• Act it out
• Work backwards
• Simplify the problem
A
Act out the strategy
R
Review the solution
(CURT)
• Calculations
• Units
• Reasonable
• Transference

Math Carnival for P1 by P6

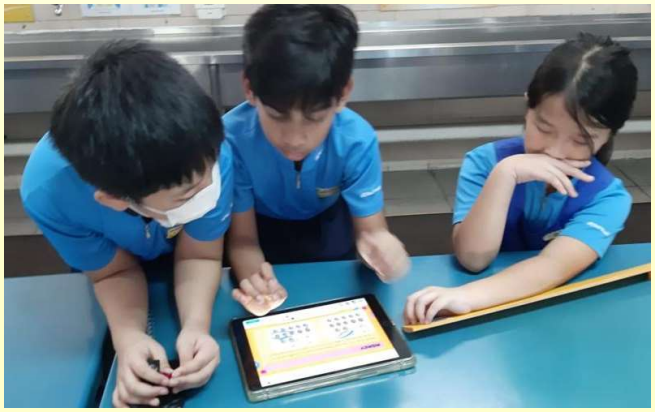


Math Trail

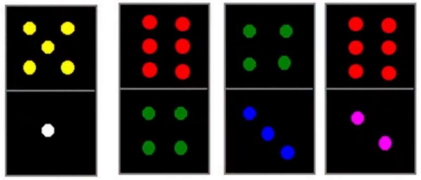
Tangram challenge



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!

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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.

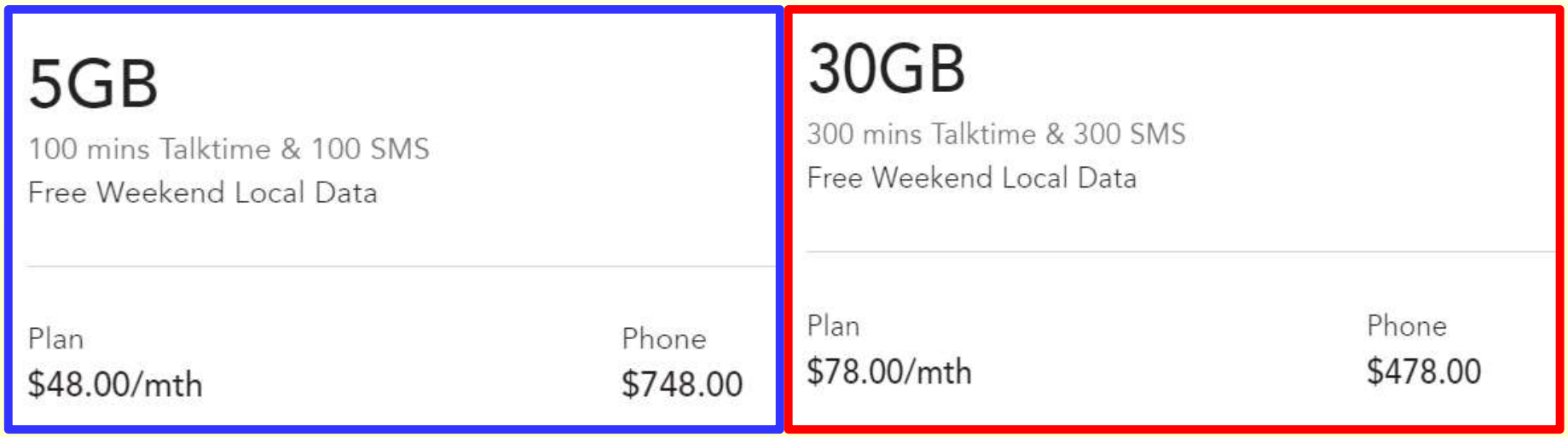
Use math with your child in daily life.

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.

- Which mobile phone best suits our needs?
- Which mobile plan to subscribe to?
- To purchase a mobile phone with a plan or without?



Estimate mass of fruits and vegetables before weighing.

Compare different sizes. Discuss best value for money or even why people may buy the more expensive option.

How can we maximise the discount?

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How to study Math

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,

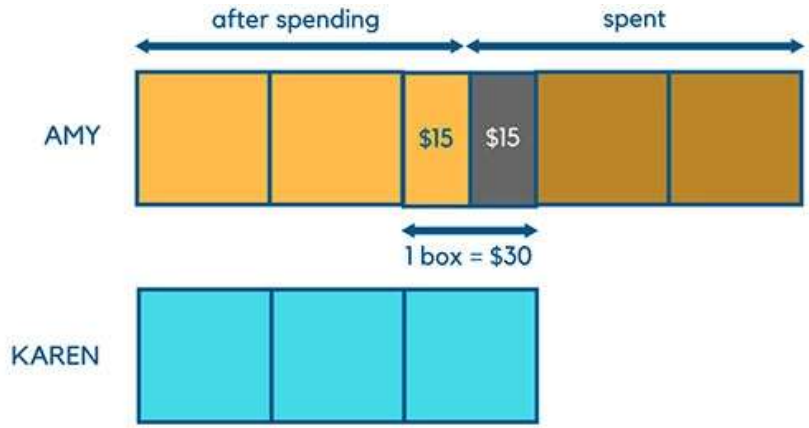
   computational/precision errors,

   conceptual understanding

- ❑E.g.: look through Topical Review worksheets, workbook, Paper 1

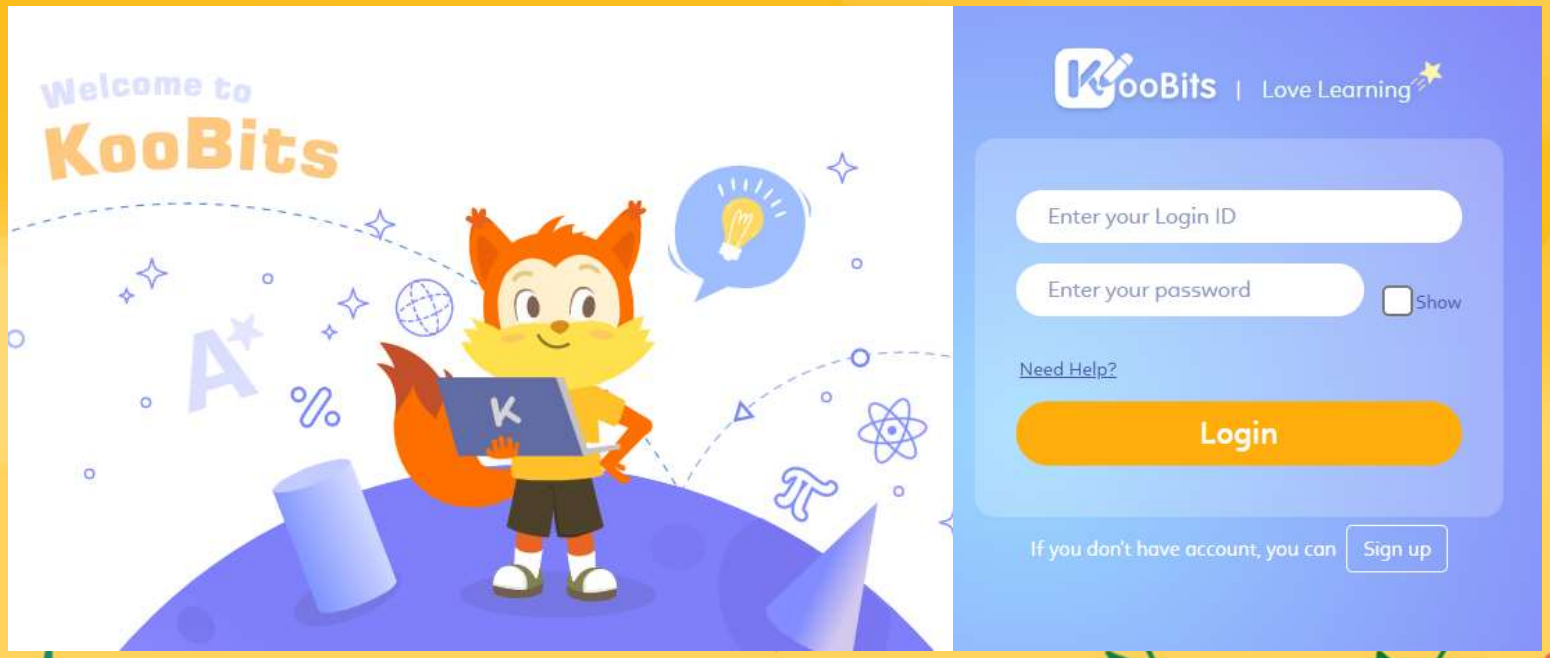
How to study Math

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



Koobits

- Encourage self-directed learning



Communicating effectively in Mathematics

Presentation

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

(4 + 8) x 6 + 30 – 8
= 12 x 6
= 72 + 30
=108 – 8
=100

(4 + 8) x 6 + 30 – 8
= 12 x 6 + 30 - 8
= 72 + 30 – 8
=108 – 8
=100

Presentation of solutions:

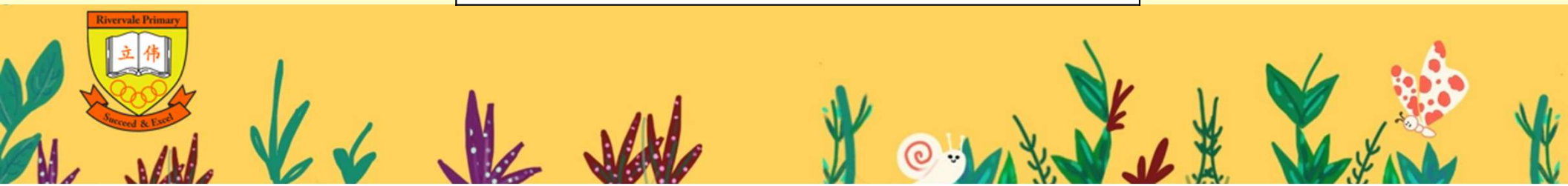
Arrows for Percentage and Rate

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

$$20\ \% = 80$$ ✗

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

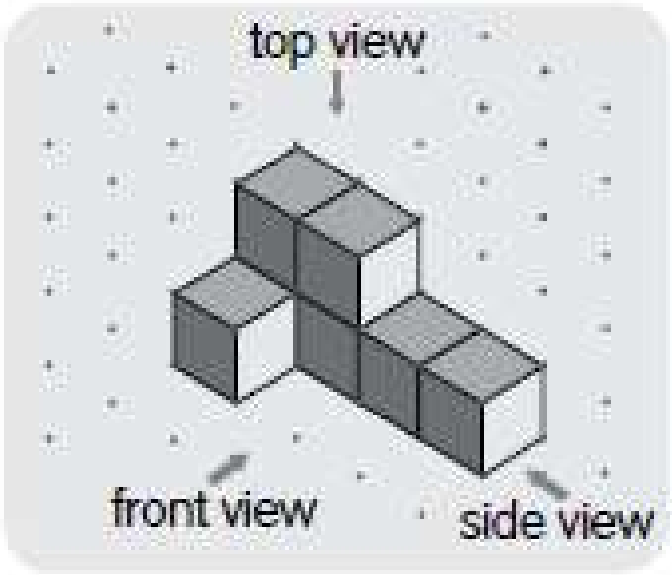
Right
$20\ \% \rightarrow 80$

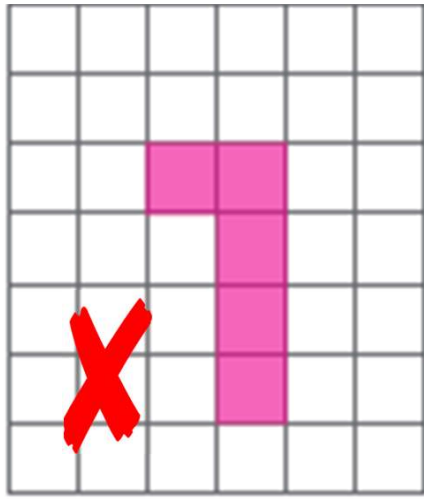


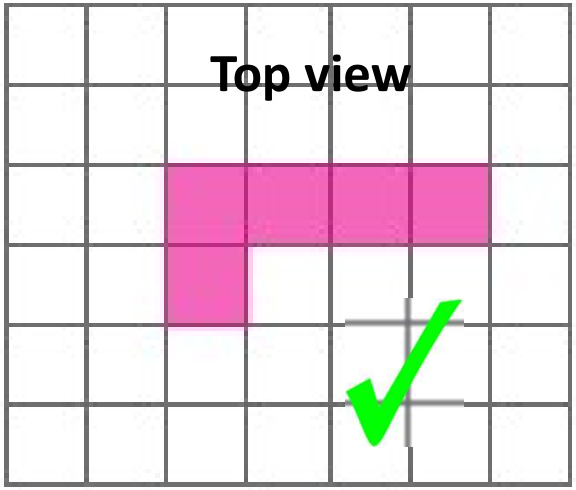
Volume

NOTE:
TOP view is always seen from the FRONT view

Draw the top view of the solid on square grid.







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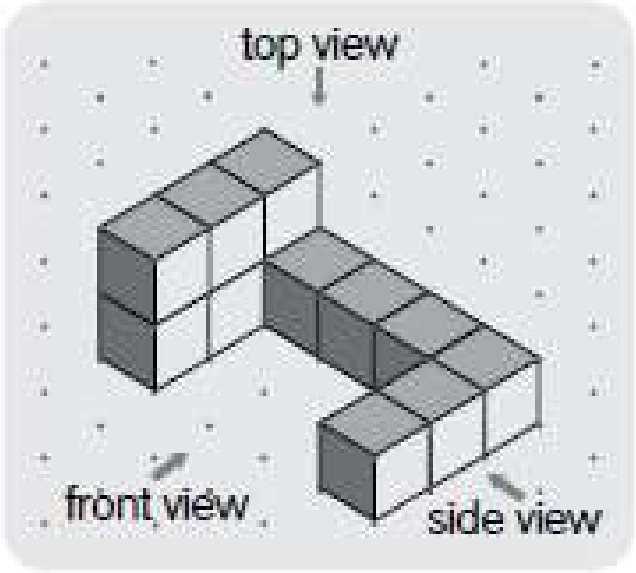
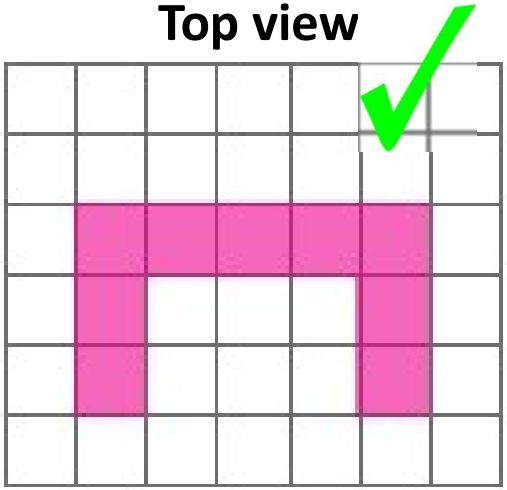
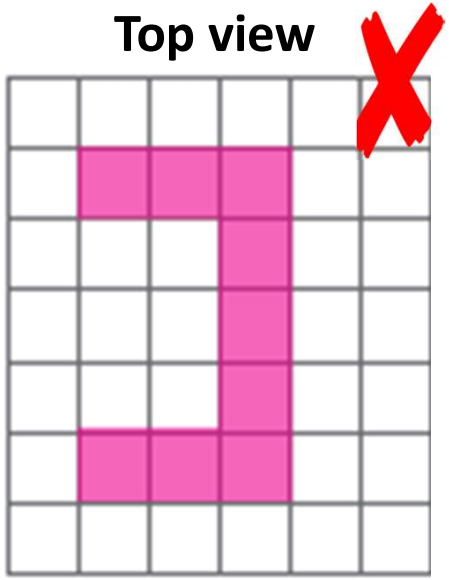


Top view



Top view



Assessment Matters for Standard Mathematics

Assessment Format for Standard Mathematics

SCAN ME

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

SCAN ME

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

Thank You!
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