Primary 5 and Primary 6 Assessment and Curriculum Sharing

Mathematics

RIVERVALE PRIMARY SCHOOL

Overview

- AL Banding
- Assessment Matters for Standard Mathematics
- Assessment Matters for Foundation Mathematics
- Cognitive levels in assessment
- Assessment Feedback to Parents
- Strategies to support students in learning Mathematics

AL Banding

AL	Raw Mark Range
1	≥ 90
2	85 - 89
3	80 - 84
4	75 - 79
5	65 - 74
6	45 - 64
7	20 - 44
8	< 20

Grades for Foundation	Foundation Raw Mark Range	Equivalent Standard Level AL
A	75 - 100	6
B	30 -74	7
C	< 30	8

AL Banding

Placement Outcome	PSLE Score
EXPRESS	4 - 20
EXPRESS / N(A) OPTION	21 - 22
N(A)	23 - 24
N(A) / N(T) OPTION	25
N(T)	26 - 30, with AL7 or better in both English Language and Mathematics

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

https://www.seab.gov.sg/docs/default-source/documents/guidelines_calculators.pdf

Assessment Content for P5 Standard Mathematics

Content	P5 Weighting (%)
Whole Numbers, Fractions and Decimals	42
Ratio Percentage	12
Rate	6
Area of Triangles Volume	15
Angles Properties of triangles Parallelogram, Rhombus and Trapezium	15
Average	10
Total	**100**

Note: Topics from P1 to P4 will also be included.

Assessment Content for P6 Standard Mathematics

Content	P6 Weighting (%)
Whole Numbers, Fractions and Decimals	25
Ratio and Percentage	10
Rate and Speed	5
Algebra	5
Measurement Circles Volume Solids, Nets and figures	20
Angles Angles in Geometrical Figures	20
Statistics Pie Chart	15
Total	100

Note: Topics from P1 to P5 will also be included.

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

https://www.seab.gov.sg/docs/default-source/documents/guidelines_calculators.pdf

Assessment Content for Foundation Mathematics

Content	FMA P5 Weighting (%)	FMA P6 Weighting (%)
Whole Numbers, Fractions and Decimals	50	30
Rate	5	5
Percentage*		10
Measurement	20	25
Geometry	15	15
Statistics	10	15
Total	100	100

Cognitive Levels for Mathematics

Cognitive Levels for Mathematics

Cognitive Levels	
Level 1 (Basic)	**Recall** mathematical facts, concepts, rules and formulae; **perform straightforward computations and algebraic procedures**
Level 2 (Intermediate)	**Interpret information**; **understand and apply mathematical concepts and skills** in a variety of contexts
Level 3 (Challenging)	**Reason mathematically; analyse information and make inferences**; **select appropriate strategies** to solve problems.

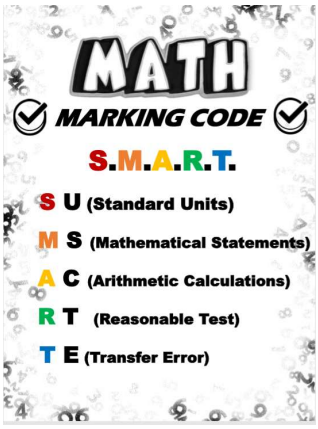
Cognitive Levels for Mathematics

	Level 1	Level 2	Level 3
P5 Standard	**35**	**40**	**25**
P6 Standard	**25**	**40**	**35**
P5 Foundation	**40**	**50**	**10**
P6 Standard	**35**	**50**	**15**

AL	Raw Mark Range
1	≥ 90
2	85 - 89
3	80 - 84
4	75 - 79
5	65 - 74
6	45 - 64
7	20 - 44
8	< 20

Assessment Feedback to Parents

Assessment Feedback to Parents



At the end of each topic

- unweighted assessments such as topical reviews, performance tasks & journals

Daily work:

- In-class work
- homework

Teachers' meetings with parents or other feedback channels

How to support students' in learning Mathematics

What Can I Do As A Parent?

- **Active involvement in child's school work**

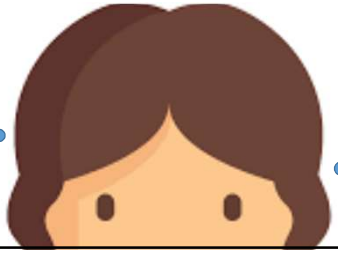
Ask your child to talk about and teach you math.

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?

30GB

300 mins Talktime & 300 SMS
Free Weekend Local Data

Plan	Phone
$78.00/mth	$478.00

5GB

100 mins Talktime & 100 SMS
Free Weekend Local Data

Plan	Phone
$48.00/mth	$748.00

Involve your child in supermarket math

Estimate mass of fruits and vegetables before weighing.

Compare different brands, find the best value for money!

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

How to study Math

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

Koobits

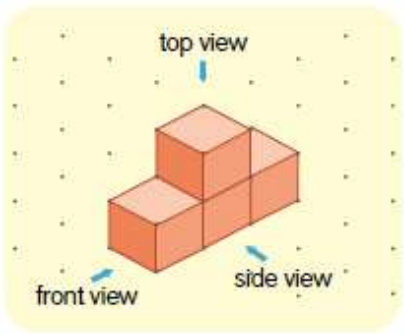
- Encourage self-directed learning
- Students can learn at their own pace and can close gaps identified.
- Solutions are provided to guide students if they did the questions wrongly.
- Students are encouraged to try the same skill again, if they have not mastered the skill.
- Allocate 15 to 20 min on Koobits daily.

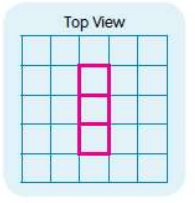
Communicating effectively in Mathematics

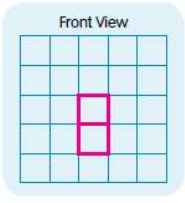
TOP view is always seen from the FRONT view

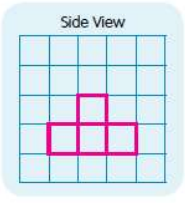
Volume

Draw the top view, front view and side view of each solid on square grids.





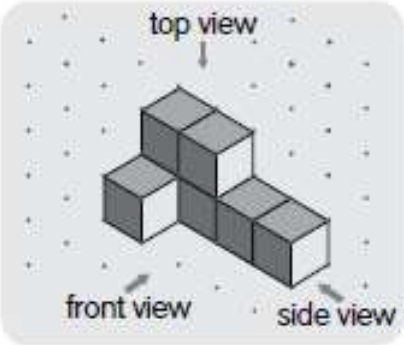




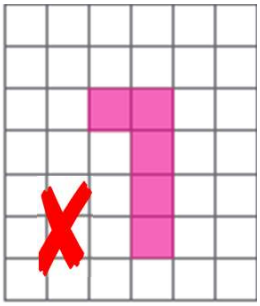
Volume

NOTE:
TOP view is always seen from the FRONT view

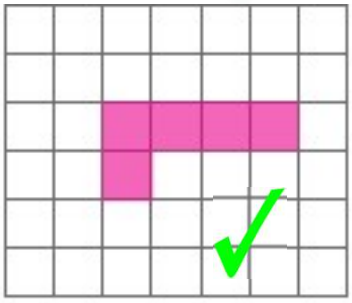
Draw the top view of the solid on square grid.



Top view



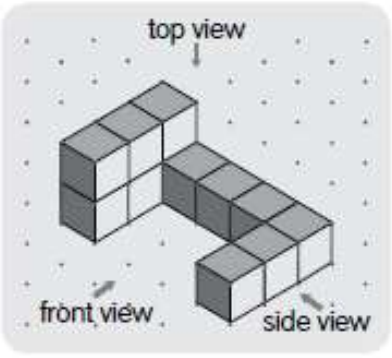
Top view



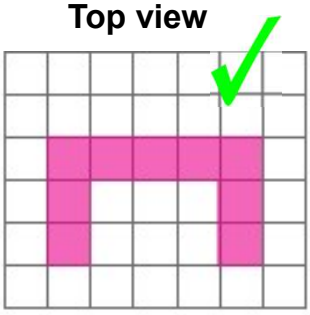
Volume

NOTE:
TOP view is always seen from the FRONT view

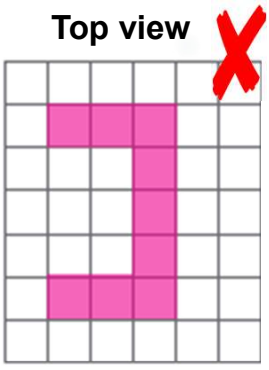
Draw the top view of the solid on square grid.



Top view

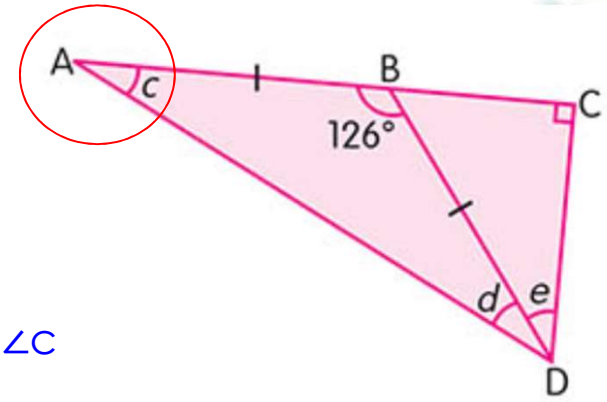


Top view



Angles

- Clear identification of angles

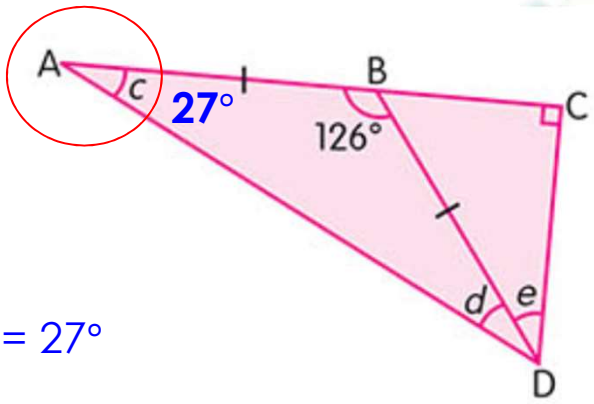


Correct: ∠BAD or ∠DAB or ∠c

Incorrect: ∠bad or ∠dab or ∠C or ∠A

Angles

- Labelling of equations



Recommended:
∠BAD = (180° – 126°) ÷ 2 = 27°
OR
(180° – 126°) ÷ 2 = 27° (∠BAD)
OR
Labelling in the diagram

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

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

Method 1

50 – 20 = 30
30 + 15 = 45

Do not recommend

Method 2

50 – 20 + 15 = 30 + 15
= 45

P6 algebra
Simplifying algebraic expressions

$25s + 10 - 4s + 6s - 8$
$= 25s - 4s + 6s + 10 - 8$
$= 27s + 2$

Presentation of solutions:

1) Arrows for Percentage and Rate

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

Percentage:

☹ Wrong	☺ Right
100% = 20	100% → 20
1% = 20 ÷ 100 = 0.2	1% → 20 ÷ 100 = 0.2
50% = 0.2 × 50 = 10	50% → 0.2 × 50 = 10

Presentation of solutions:

1) Arrows for Percentage and Rate

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

Rate:

☹ Wrong	☺ Right
20 min = 80 bottles	20 min → 80 bottles
1 min = 80 ÷ 20 = 4 bottles	1 min → 80 ÷ 20 = 4 bottles
8 min = 8 × 4 = 32 bottles	8 min → 8 × 4 = 32 bottles

Presentation of solutions:

2) Equal sign for unitary method

✓ Use equal signs when doing questions involving units

☹ Wrong	☺ Right
15 units → 75	15 units = 75
1 unit → 75 ÷ 15 = 5	1 unit = 75 ÷ 15 = 5
7 units → 7 × 5 = 35	7 units = 7 × 5 = 35

Presentation

- **Wrong use of units**

Money → $, ¢

Mass → kg, g

Length → cm, m, km

Area → cm^2, m^2, km^2
(Area = length (cm) x length (cm))

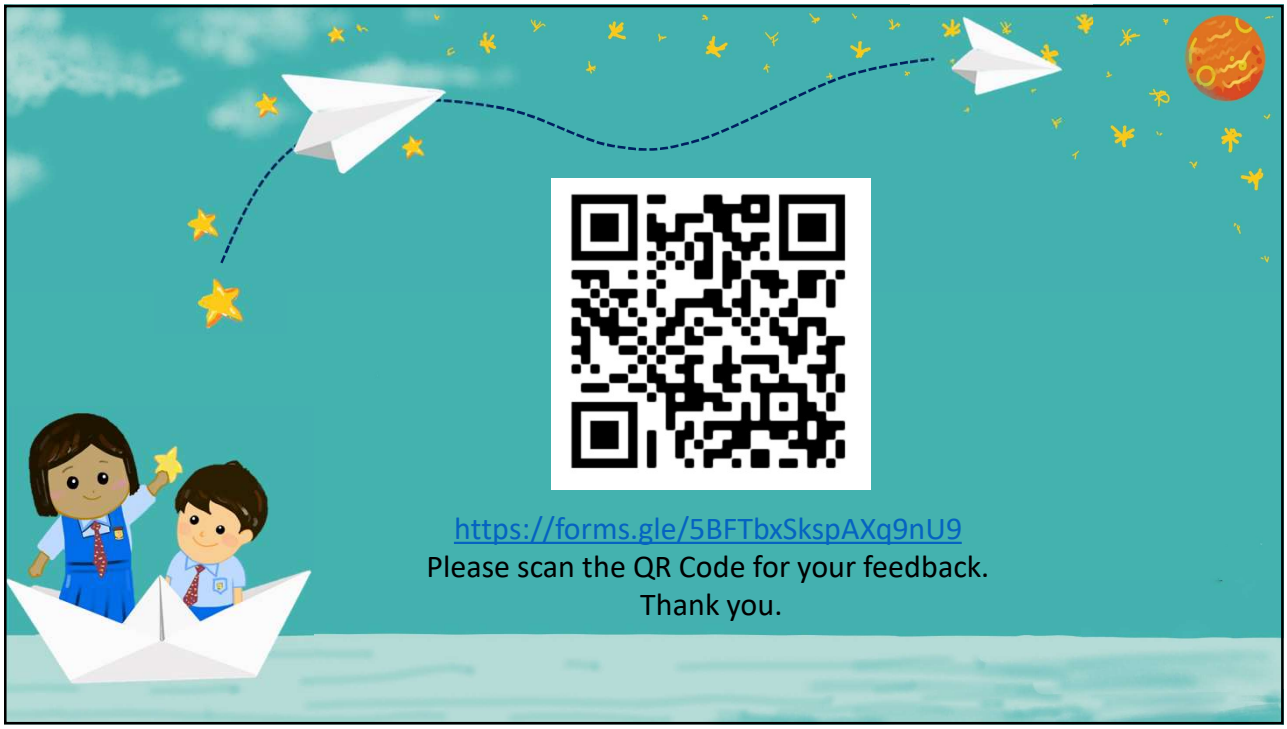
Volume → cm^3, m^3, ℓ , ml
(Volume = length (cm) x length (cm) x length (cm)

Time → a.m., p.m., h, min, s

Angle → °

Percentage → %

Speed → km/h, m/min



https://forms.gle/5BFTbxSkspAXq9nU9

Please scan the QR Code for your feedback.

Thank you.