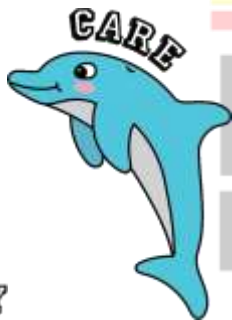


P6 MATHS BRIEFING

INSIGHT INTO THE PSLE MATHS PAPER

17 Jan 2020



PIONEER
PRIMARY SCHOOL



Outline

- 1) P6 Maths Holistics Assessment Plan
- 2) Examination Format
- 3) Analysis of PSLE Maths Marks Distribution
- 4) Types of questions
- 5) Strategies to help your child

Assessment Plan

Termly Factual Fluency Review

Term 1	Multiplication tables: 2 to 10 Division tables: 2 to 10	0% weighting 5 min
Term 2	Multiplication tables: 2 to 10 Division tables: 2 to 10	
Term 3	Multiplication tables: 2 to 10 Division tables: 2 to 10	
Term 4	Nil	

Assessment Plan

Termly Exams

Term 1	<u>CA</u> <ul style="list-style-type: none">• All P3 to P5 Mathematics Topics• P6 Algebra• P6 Fractions• P6 Ratio	100 marks / 0% / 1 h + 1 h 30 min
Term 2	<u>Mid-Year Exam</u> <ul style="list-style-type: none">• All Mathematics Topics from P1 to P6 (exclude P6 Speed, P6 Volume, P6 Pie Charts and P6 Nets)	100 marks / 40% / 1 h + 1 h 30 min

Assessment Plan

Termly Exams

Term 3	<u>Prelim</u> All Mathematics Topics from P1 to P6	100 marks / 60% / 1 h + 1 h 30 min
Term 4	<u>PSLE</u> All Mathematics Topics from P1 to P6	100 marks 1 h + 1 h 30 min

New Topics learnt

Topic	P5 Sub-Topic	P6 Sub-Topic
Numbers	<ul style="list-style-type: none"> Numbers up to 10 million Fractions Decimals 	• -
Measurement	<ul style="list-style-type: none"> Area of Triangle Vol of cube and cuboid 	<ul style="list-style-type: none"> Area and Circumference of circle Vol of cube and cuboid
Statistics	<ul style="list-style-type: none"> Average of a set or data 	<ul style="list-style-type: none"> Pie Charts
Geometry	<ul style="list-style-type: none"> Angles Triangle Parallelogram, trapezium, rhombus 	<ul style="list-style-type: none"> Special quadrilaterals Nets
Ratio and Percentage	<ul style="list-style-type: none"> Ratio Percentage 	<ul style="list-style-type: none"> Ratio Percentage
Rate and Speed	<ul style="list-style-type: none"> Rate 	<ul style="list-style-type: none"> Distance, Time and speed
Algebra	• -	<ul style="list-style-type: none"> Algebra

Topics in Maths Syllabus

Topic	Major Sub-topics
Numbers	<ul style="list-style-type: none">Numbers up to 10 million, 4 Operations, Fractions, Decimals
Measurement	<ul style="list-style-type: none">Length, mass, volume, Area and Perimeter, Time, Circles
Statistics	<ul style="list-style-type: none">Bar and line graphs, Average, Pie charts
Geometry	<ul style="list-style-type: none">Line of symmetry, Parallel and Perpendicular linesAngles, Triangle, Parallelogram, trapezium, rhombusSpecial quadrilaterals, Nets
Ratio and Percentage	<ul style="list-style-type: none">Ratio and Percentage
Rate and Speed	<ul style="list-style-type: none">RateDistance, Time and speed
Algebra	<ul style="list-style-type: none">Algebra

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Examination Format

Pa per	Bklet	Item Type	No of qns	No. of marks per qn	Weight -ing	Dura -tion
1	A	Multiple Choice	10	1	10%	1 hour
			5	2	10%	
	B	Short answer	5	1	5%	
			10	2	20%	
2	Short answer		5	2	10%	1 hour 30min
	Structured, Long answer		12	3, 4, 5	45%	
Total			47	-	100%	

Approved calculators

- Paper 2: Calculators **allowed**
- Please refer to the link below:
- <https://www.seab.gov.sg/home/examinations/approved-calculators>

S/N	Calculator Brand	Calculator Model	Approved Period
1	CASIO	FX 82MS	2003 – 2021
2		FX 85MS	2003 – 2021
3		FX 95MS	2003 – 2021
4		FX 96SG Plus	2013 – 2021
5		FX 97SG X	2018 – 2022
6		FX 350MS	2003 – 2021
7	CANON	F-960SG	2017 – 2021
8	SHARP	EL W531S	2010 – 2023
9		EL W531S II	2018 – 2022
10		EL W531XM	2014 – 2023
11		EL 533X	2013 – 2024

Suggested timing

Pa per	Bklet	Item Type	No of qns	No. of marks per qn	Time per qn	Duration
1	A	Multiple Choice	10	1	1.5 min	52.5 min (1 h)
			5	2	2 min	
	B	Short answer	5	1	1.5 min	
			10	2	2 min	
2	Short answer		5	2	2 min	1h22min (1h30min)
	Structured, Long answer		12	3, 4, 5	6 min	
Total			47	-	2h 14.5min	2 h 30 min

Suggested Timing for each question

- 1.5 min per 1 mark MCQ/SAQ question
- 2 min per 2 mark MCQ/SAQ question
- Remaining time for check or thinking time
- Factual Fluency is important!
- 45% of the paper is done without the calculator
- 6 min per long answer question

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Breakdown of PSLE paper 2018

Topic	Paper 1 Marks	Paper 2 Marks	Total Marks
Numbers	10	15	25
Measurement	13	6	19
Statistics	4	11	15
Geometry	10	10	20
Ratio and Percentage	2	9	11
Rate and Speed	3	2	5
Algebra	3	2	5
Total	45	55	100

Breakdown of PSLE paper 2017

Topic	Paper 1 Marks	Paper 2 Marks	Total Marks
Numbers	18	11	29
Measurement	7	16	23
Statistics	2	7	9
Geometry	6	10	16
Ratio and Percentage	2	11	13
Rate and Speed	4	2	6
Algebra	4	2	6
Total	40	60	100

Breakdown of PSLE paper 2016

Topic	Paper 1 Marks	Paper 2 Marks	Total Marks
Numbers	14	17	31
Measurement	5	16	21
Statistics	3	7	10
Geometry	9	4	13
Ratio and Percentage	1	9	10
Rate and Speed	6	5	11
Algebra	6	5	11
Total	40	60	100

Breakdown of PSLE paper Average

Topic	Paper 1 Marks	Paper 2 Marks	Total Marks
Numbers	14.0	14.3	28.3
Measurement	8.3	12.7	21.0
Statistics	3.0	8.3	11.3
Geometry	8.3	8.0	16.3
Ratio and Percentage	1.7	9.7	11.3
Rate and Speed	4.3	3.0	7.3
Algebra	4.3	3.0	7.3
Total	41.7	58.3	100.0

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2018 Easy Question

20

- 2018 Bklet B Q22
- Find the value of 7.26×8 . Give your answer correct to 1 decimal place.
-

2018 Moderate Question

30

- 2018 Bklet B Q26
- Sally had 40 stamps and Ting had 32 stamps. After Sally gave some of her stamps to Ting, the number of stamps Sally and Ting had were in the ratio 1 : 2. How many stamps did Ting have in the end?

2018 Moderate Question

◦ 2018 Bklet B Q26

Constant Total

- Sally had 40 stamps and Ting had 32 stamps. After Sally gave some of her stamps to Ting, the number of stamps Sally and Ting had were in the ratio 1 : 2. How many stamps did Ting have in the end?

At first

<u>S</u>	<u>:</u>	<u>T</u>	<u>:</u>	<u>Total</u>
40	:	32	:	72

End

<u>S</u>	<u>:</u>	<u>T</u>	<u>:</u>	<u>Total</u>
1	:	2	:	3
×24				×24
24	:	48	:	72

Ans: 48

2018 Difficult Question

30

- 2018 Paper 2 Qn 3
- For a recycling project, Ali collected 17 bottles, Bala collected $2m$ bottles and Carl collected $2+m$ bottles.
- Each of the statements below is either true, false, or not possible to tell from the information given. For each statement, put a tick to indicate your answer.

Statement	True	False	Not possible to tell
Ali collected the most number of bottles.			
Bala collected more bottles than Carl.			
The 3 boys collected $3m+19$ bottles altogether.			

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Revise areas of weakness

- Factual Fluency
- Not counting with their fingers
- P3 to P4 concepts
 - Length, mass, volume
 - Area and perimeter
 - Geometry (e.g. angles, parallel lines)

Using SPAR Approach

Study

- Let's read the problem carefully
- Underline the persons/objects/values. How are they related?
- What do I need to find?

Ponder

- What strategy can I use?
- Why do I choose this strategy?

Apply

- Apply the selected strategy

Review

- Does the answer make sense?
 - Calculation
 - Units
 - Transfer error
- Check the "CUT"
- Is there a better way to solve the problem?

Platforms for revision

PROBLEMSUMS.KOOBITS.COM

Welcome to
KooBits Math

Details will be given to
students soon.

Full Name : **Tan Chee Siong**

BC number: **T0922345A**

Username and Password: **tanch2345a**

Assign homework for my child

KooBits DASHBOARD REPORT LEADERBOARD

KoKo Monster

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Give your brain a workout

Challenge
Join competitions, challenge friends and have fun!

Homework
Complete weekly homework to earn KooKo Credits!

Self Practice
Practice by topic. Learn at your own pace!

StoryMath
The book of nature is written in the language of mathematics.

DAILY TASK

✓ + K

Daily Challenge

Peer Challenge

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**"GRADES DON'T
DEFINE YOU OR
YOUR FUTURE -
YOUR
CHARACTER
DOES."**

Family Circle



many
Thanks!

