

# Primary 6 Mathematics



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## Math Assessment Plans

Term 1	Mini Test	
Term 2	Mini Test	
Term 3	Prelim	100%
Term 4	PSLE	



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# Examination Format

- Paper 1 – non calculator component
- Paper 2 – calculator component

*There will be a break between the two papers*



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# Examination Format

## Paper 1

Paper	Item Type	No. of Qns.	No. of marks per Qn.	Weighting	Duration
1	Booklet A MCQ	10	1	10%	1 hour
		5	2	10%	
	Booklet B Short-ans	5	1	5%	
		10	2	20%	
Total				45%	



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# Examination Format

## Paper 2

Paper	Item Type	No. of Qns.	No. of marks per Qn.	Weighting	Duration
2	Short-ans	5	2	10%	1 h 30 min
	Structured / Long-ans	12	3, 4, 5	45%	
Total				55%	



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# Time Management

## **Duration for Paper 1 : 1 hour**

Booklet A : 25 minutes

Booklet B : 25 minutes

Checking : 10 minutes

## **Duration of Paper 2 : 1 hour 30 minutes**

5 Short answer questions : 15 minutes

Long structured questions : 55 minutes

Checking : 20 minutes





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## 2 Mark-Short Answer Question

	2 mark	1 mark
Correct answer		
Correct method but wrong answer		



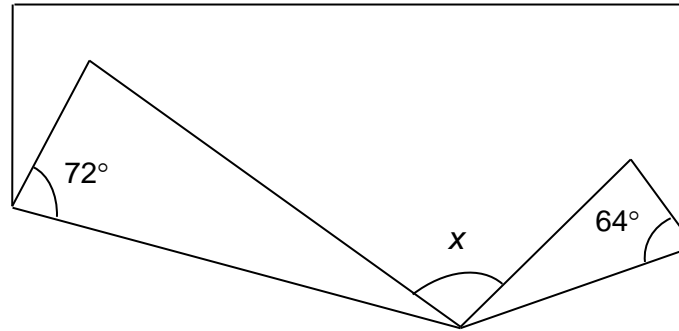
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# Correct Method But Wrong Answer

The figure below shows a rectangular piece of paper folded at two of its corners. Find  $\angle x$ .



$$90^\circ - 72^\circ = 18^\circ$$

$$90^\circ - 64^\circ = 26^\circ$$

$$180^\circ - (18^\circ \times 2) - (26^\circ \times 2) = \underline{92^\circ} \quad (\text{M1 A1})$$

$$90^\circ - 72^\circ = 16^\circ$$

$$90^\circ - 64^\circ = 26^\circ$$

$$180^\circ - (16^\circ \times 2) - (26^\circ \times 2) = \underline{96^\circ} \quad (\text{M1})$$





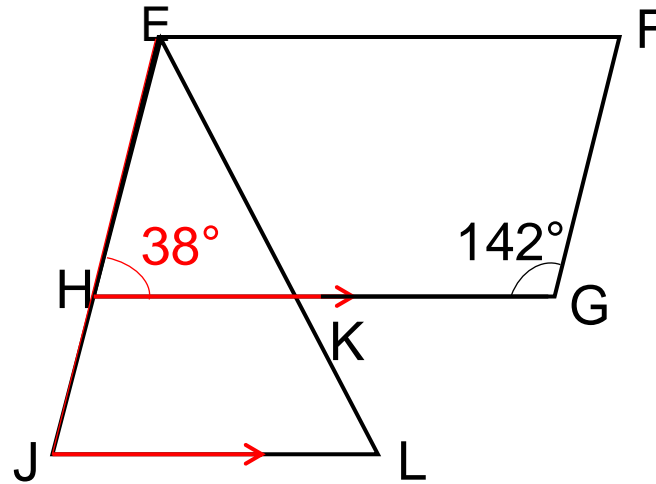
# Structured/ Long Answer Question

- For each question, pupils have to show **his** working steps clearly.
- Marks are allocated for correct method or workings shown.
- For questions on Angles, pupils have to label the angles explicitly in the number sentences or mark them in the figures.



# Labelling the angles in the solutions

In the figure below (not drawn to scale), EFGH is a parallelogram and EHL is a triangle.  $\angle FGH = 142^\circ$  and  $HG \parallel JL$ . Find  $\angle HJL$ .



$$\angle EHG = 180^\circ - 142^\circ \quad (\text{M1})$$

$$= 38^\circ$$

$$\angle JHK = 180^\circ - 38^\circ \quad (\text{M1})$$

$$= 142^\circ$$

$$\angle HJL = 180^\circ - 142^\circ \quad (\text{M1})$$

$$= 38^\circ \quad (\text{A1})$$



# Common Errors

TOPICS	
Numbers	<p>Arrange the following numbers from the largest to the smallest.</p> <p>6, 6.3, 6.03</p> <p>Pupils tend to write 6 is greater than 6.03</p>



# Common Errors

TOPICS	
Numbers	<p>7.26 x 8 . Give your answer to 1 decimal place.</p> <p>Pupils did not know how to deal with the place holder “0” in the answer 58.08.</p> <p>A common wrong answer is 58.8.</p>



# Common errors

TOPICS	
Percentage	<p>Pupils did not use the correct bases for their calculations.</p> <p>Lily saved \$70 in February. This amount was a 20% increase from what she saved in January. The amount she saved in March was a 15% decrease from what she saved in February. What was the total amount that Lily saved from January to March?</p>



# Common errors

TOPICS	
Measurement	Pupils stumbled over the conversion of metres-centimetres.

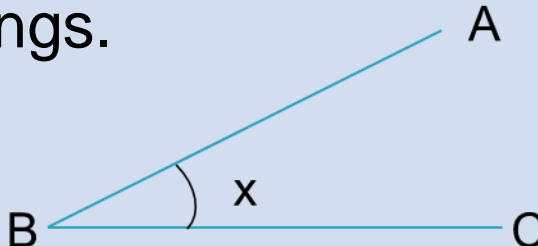


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# Common errors

TOPICS	
Geometry	<ul style="list-style-type: none"><li>• Not familiar with the various properties. Eg : parallelogram, trapezium .</li><li>• Pupils did not reference the angles accurately in their workings.</li></ul> 



# Common errors

TOPICS	
Algebra	Pupils had the misconception that $2m$ is always more than $2 + m$ . They missed out on checking that this is not true when $m = 0, 1$ or $2$





# Strategy for Solving Word Problems

Step 1 : **R**ead questions carefully.

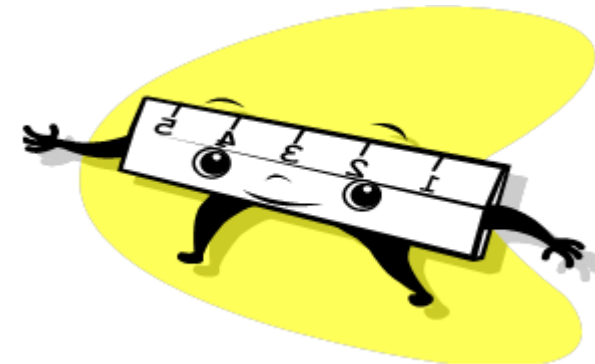
Step 2 : **U**nderline magic words.

Step 3 : **L**ook for clues.

Step 4 : **E**quations are a MUST!

Step 5 : **R**eady to check. (Use estimation to check the reasonableness of answers.)

# RULER!



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# Curriculum Matters

## Some class routines

- ☐ Draw model using pencil and ruler
- ☐ Corrections to be completed in green
- ☐ Homework to be handed in the following day



# What a child should do....

1. Build a strong foundation in basis knowledge.
2. Constant revision
  - Practise questions of different concepts to strength the concepts.
3. Revise all the topics that would be tested, including previous and current year topics.
4. Start out with simple sums before moving on to more difficult sums.



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# Some exam strategies

1. Always attempt the questions according to the order in the paper to build up confidence for the rest of the paper.
2. If the pupil come across a difficult question, he should skip it and move on before going back. (Hopefully not too many)



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# Some exam strategies

## 3. **Guess and Check :**

- Should be the last resort to solve problems.
- Is important to label the tables and to check against the criteria specified in the questions.
- Write neatly as the pupils tend to be untidy in the presentation



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# Math Olympiad Competitions

- Hwa Chong (SMOPS)
- Raffles Institution (RIPMWC)
- Open to pupils who are interested to take part in the competitions
- Details will be provided at a later date.



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