

18-19 F.4
1st TERM EXAM
MATH CP
PAPER 1

2018 – 2019
Form 4 1st Term Examination

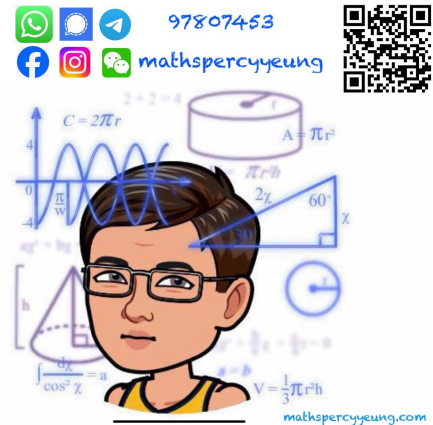
**MATHEMATICS Compulsory Part
PAPER 1**

Question-Answer Book

4th January, 2019.
8:15 a.m. – 9:15 a.m. (1 hour)
This paper must be answered in English.

INSTRUCTIONS

- Write your name, class and class number in the spaces provided on this cover.
- This paper consists of THREE sections, A(1), A(2) and B.
- Attempt ALL questions in this paper. Write your answers in the spaces provided in this Question-Answer Book. Do not write in the margins. Answers written in the margins will not be marked.
- Unless otherwise specified, all working must be clearly shown.
- Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
- The diagrams in this paper are not necessarily drawn to scale.



Section	Marks
A (1 – 2)	
A (3 – 8)	
A Total	/ 35
B Total	/ 15
TOTAL	/ 50

Section A(1) (16 marks)

1. Simplify $\frac{ab^5}{a^{-2}(3b^4)^3}$ and express your answer with positive indices. (3 marks)

2. Make x the subject of the formula $(2 - x)(2 - y) = x$. (3 marks)

3. Simplify $\frac{6}{\sqrt{12}} - \sqrt{75} + 7\sqrt{3}$. (3 marks)

Answers written in the margins will not be marked.

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4. Solve the quadratic equation $4x^2 - 5 = x(x+6)$ and express your answers in surd form if necessary. (3 marks)

5. (a) Factorize $9x^2 - y^2$.
(b) Simplify $\frac{2x+y}{3x-y} + \frac{2y(y-8x)}{9x^2-y^2}$. (4 marks)

Answers written in the margins will not be marked.

