

19-20 F.4
1st TERM EXAM
MATH CP
PAPER 1

2019 – 2020
Form 4 1st Term Examination

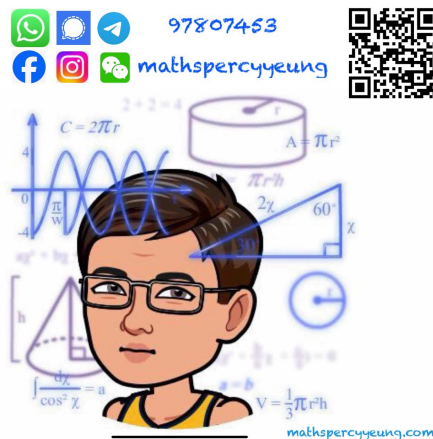
**MATHEMATICS Compulsory Part
PAPER 1**

Question-Answer Book

6th January, 2020.
8:15 a.m. – 9:15 a.m. (1 hour)
This paper must be answered in English.

INSTRUCTIONS

1. Write your name, class and class number in the spaces provided on this cover.
2. This paper consists of THREE sections, A(1), A(2) and B.
3. 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.
4. Unless otherwise specified, all working must be clearly shown.
5. Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
6. The diagrams in this paper are not necessarily drawn to scale.



Section	Marks
A (1 – 3)	
A (4 – 8)	
A Total	/ 35
B Total	/ 15
TOTAL	/ 50

Section A(2) (16 marks)

7. In the figure, the coordinates of A and C are $(6, 18)$ and $(30, 0)$ respectively.

- (a) Find the equation of the straight line AC . (2 marks)
- (b) If $B(0, b)$ is a point on the y -axis such that $AB \perp AC$. Find the value of b . (3 marks)
- (c) Find the area of $\triangle ABC$. (2 marks)
- (d) A straight line passing through A cuts the line segment BC at D such that the area of $\triangle ABD$ is 120 square units. Find $BD:DC$. (2 marks)

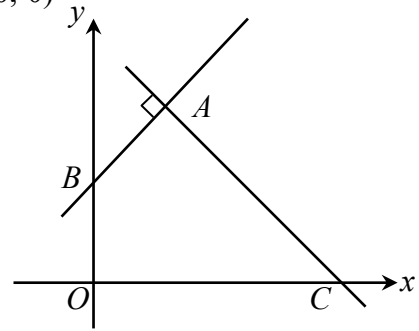


Figure 1

Answers written in the margins will not be marked.

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