

Term 1 Assessment 2025 – 2026
Revision Exercise (Set 1)

Grade :	G9	Name :	
Subject :	Mathematics	Class :	()
Paper :	I	Group No. :	
Date :		Marks :	/ 72
Time Allowed :	1 hour 15 minutes	Parent's Signature :	

This paper must be answered in English

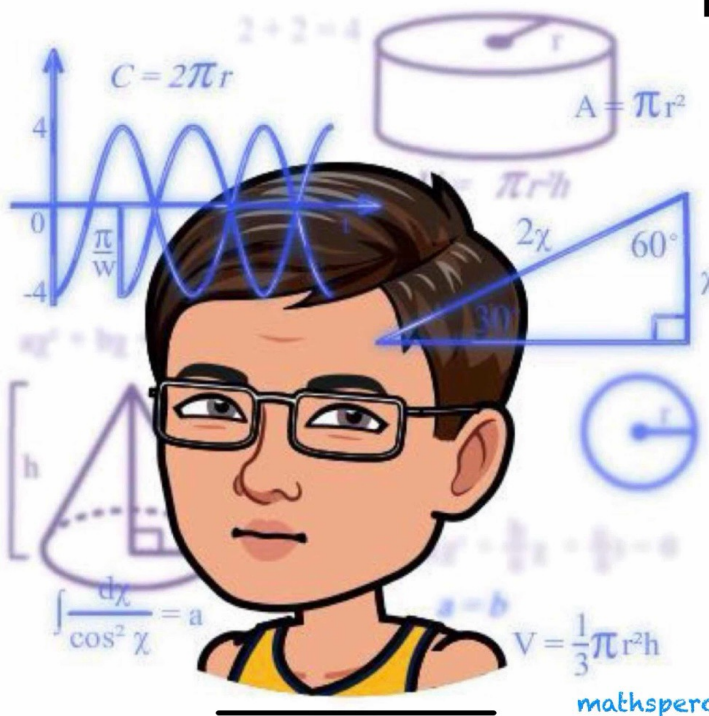
INSTRUCTIONS

1. This paper consists of 28 marks.
2. Answer all the questions.
3. Use of an HKCAA calculator is permitted.
4. The diagrams in this paper are not drawn to scale.
5. Write your mathematical answers in the spaces provided. There is no need to show the working.
6. Unless otherwise specified, give answers to 3 significant figures.
7. Do your rough work in the margins.



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Section A (44 marks)

1. (a) Factorize the following expressions.

(i) $2x^2 - 9x + 9$

(1 mark)

(ii) $6x^2 + 23x - 48$

(1 mark)

- (b) Hence, Mr. Ho claims that $x+2$ is a factor of $2x^3-15x^2-14x+48$. Do you agree? Explain your answer. (4 marks)

(4 marks)

[illegible]

- [illegible]

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3. The number of members in the Mathematics club this year is 20% more than last year, while the number of members last year was 25% less than two years ago. If there are 108 members in the Mathematics club this year, find the number of members in the Mathematics club two years ago. (4 marks)

[illegible]

4. Find the value of $2\sin 30^\circ \cos 45^\circ \tan 60^\circ$ without using a calculator. (3 marks)

[illegible]

5. Let θ be an acute angle. Given that $\cos \theta = 0.8$, find the value of $4\sin \theta - 5\tan \theta$ without finding the value of θ . (4 marks)

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6. The following table shows the number of goals of 40 football players last year.

No. of goals	1 – 5	6 – 10	11 – 15	16 – 20	21 – 25	26 – 30	31 – 35	36 – 40
Class Mark								
No. of players	2	x	9	4	7	x	6	8

- (a) Complete the above table. (1 mark)
- (b) (i) Find x . (1 mark)

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- (ii) Write down the modal class of the number of goals of these 40 players last year. (1 mark)

- (iii) Find the mean number of goals of these 40 players last year. (2 marks)

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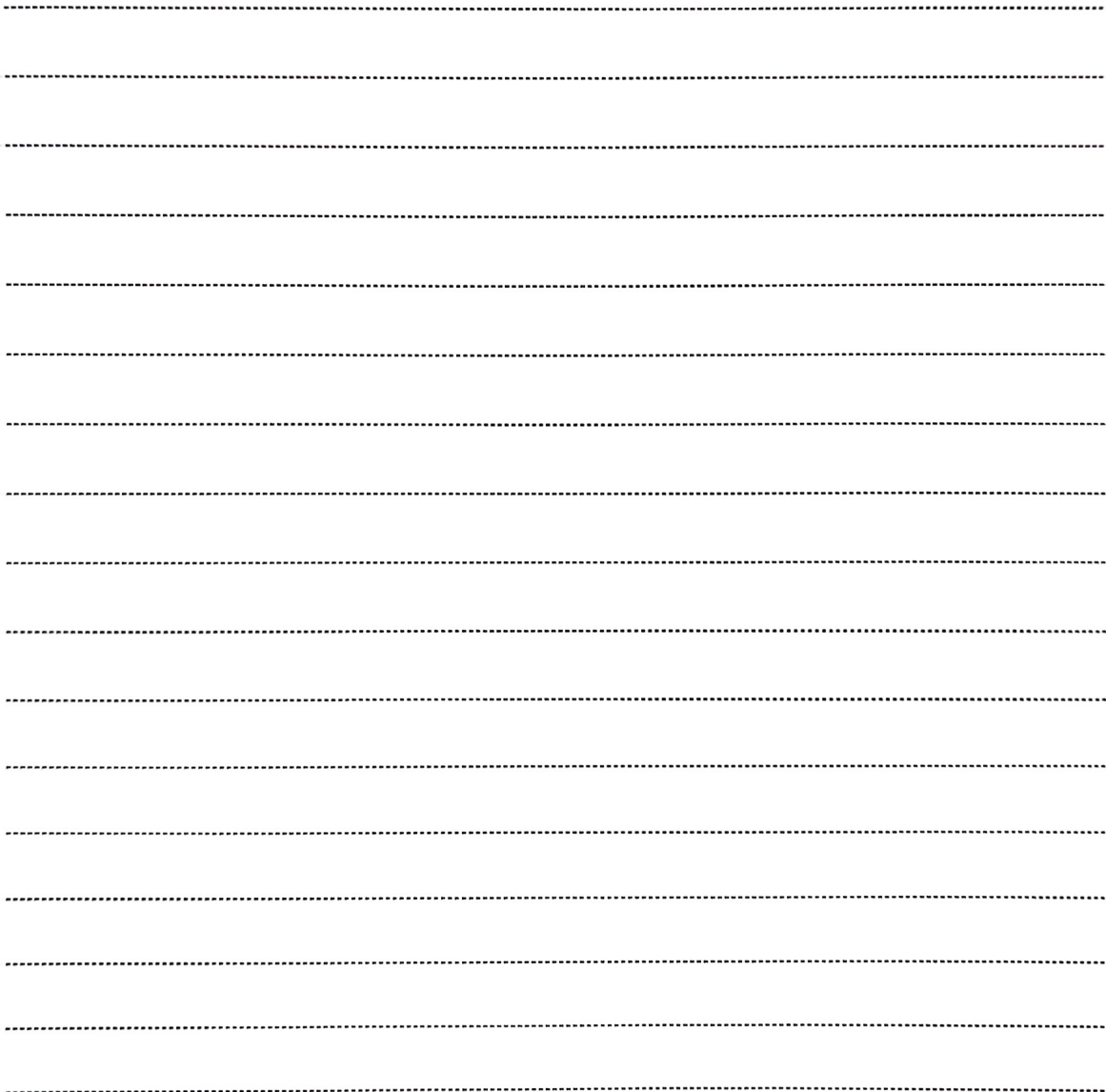
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- (5 marks)



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(b) Prove that $CD \perp AB$.

(2 marks)

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(c) Find the area of $\triangle ABC$.

(3 marks)

[illegible]

10. Peter has \$100 000. The amount of money Wesley has is 27% less than that of Peter.

(a) How much does Wesley have? (2 marks)

(b) Wesley deposits his amount of money in Wealthy Bank at a simple interest rate of $r\%$. After 2 years, he receives a simple interest of \$6570. Find the value of r . (2 marks)

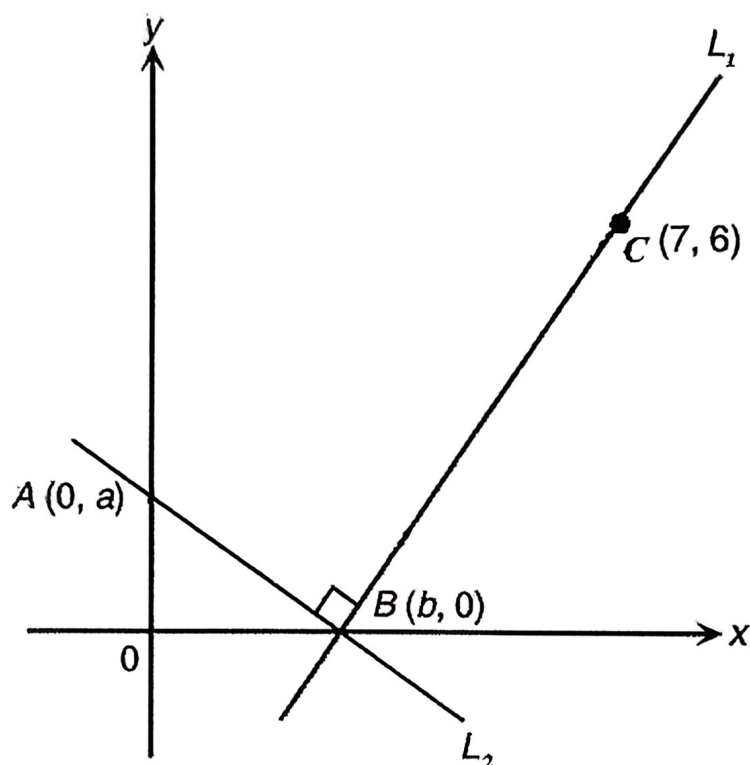
(c) If Wesley withdraws the amount from Wealthy Bank and deposits it in Fortune Bank at the same interest rate per annum for 3 years but the interest is compounded every 2 months, find the total interest obtained in these 5 years, correct to the nearest dollar. (3 marks)

A series of horizontal dashed lines for writing.

- (a) If the weighted mean of the number of votes for Candy and Tommy are 137.5 and 140.5 respectively, find the values of x and y . (5 marks)
- (b) The junior forms students said it is unfair that the weights of the votes of junior and senior forms are different. If the weight of both the junior forms and senior forms is 2 while the weight of teachers' votes remains unchanged, will the election result be changed? Explain your answer. (3 marks)
- (c) If the weights of junior and senior forms remain unchanged as 1 and 2 respectively, can you suggest a minimum integral weight of teachers' vote such that Candy can be the Head Prefect? Show your workings. (2 marks)

[illegible]

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- (a) Find the coordinates of A and B . (5 marks)
- (b) Let $D(2, 5)$. Show that $DA \parallel BC$. (2 marks)
- (c) Let P be a point on the line segment AB such that the area of $\triangle CPD$ is the greatest.
 - (i) Write down the coordinate of P . (1 mark)
 - (ii) Hence, find the greatest possible area of $\triangle CPD$. (3 marks)

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Handwriting practice lines consisting of 25 horizontal dotted lines.

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