

Term 2 Assessment 2025 – 2026

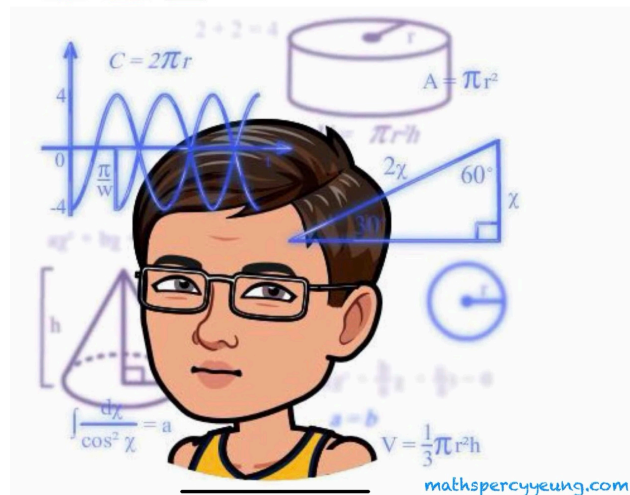
Revision Exercise (Set 1)

Grade :	G9	Name :	_____
Subject :	Mathematics	Class :	_____ ()
Paper :	I	Group No. :	_____
Date :	_____	Marks :	_____ / 70
Time Allowed :	1 hour 15 minutes	Parent's Signature :	_____

This paper must be answered in English

INSTRUCTIONS

1. This paper consists of Section A and Section B. Section A carries 49 marks. Section B carries 21 marks.
2. Answer all the questions.
3. Use of an HKEAA approved calculator is allowed.
4. The diagrams in this paper are not necessarily drawn to scale.
5. Write your mathematical expressions, answers and statements/conclusions in the spaces provided. There is NO need to show the rough work.
6. Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
7. Do your rough work in the rough worksheet provided.



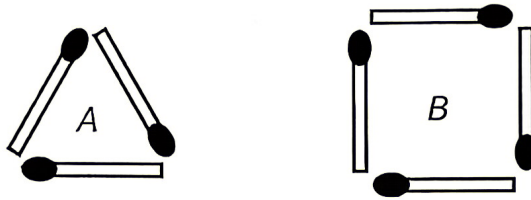
Section A (49 marks)

1. (a) Factorize $20y^2 - 49y + 30$. (1 mark)

(b) Hence, or otherwise, factorize $4y^3 + 15y^2 - 49y + 30$. (3 marks)

2. It is given that $A = p^2qr^3$. Suppose both the values of p and q are increased by 20%, while the value of r is decreased by 20%. Find the percentage change in the value of A . (3 marks)

6. The triangle A and square B as shown in the figure are formed by some identical matches.



There are 30 triangles A and 20 squares B originally. Daisy rearranges the matches to make 45 triangles A and squares B in total. If she wants to minimize the number of triangles A , how many squares B should she make? (It is not necessary to use up all the matches.) (3 marks)

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7. The intelligence quotient (IQ) scores of a group of students recorded by a psychologist are shown below:

110, 125, 100, 115, 116, x , 112, 142, 138, 139, 138, 116

- (a) It is given that the mode of the IQ scores obtained from the group of students is 116. Find the value of x . (1 mark)
- (b) Find the mean and median of the IQ scores of the group of students. (2 marks)
- (c) There are 3 students added to this group of students and their mean IQ scores is 121. The psychologist claims that the mean of the IQ scores of the group of students becomes 122. Is the claim correct? Explain your answer. (2 marks)

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END OF PAPER