

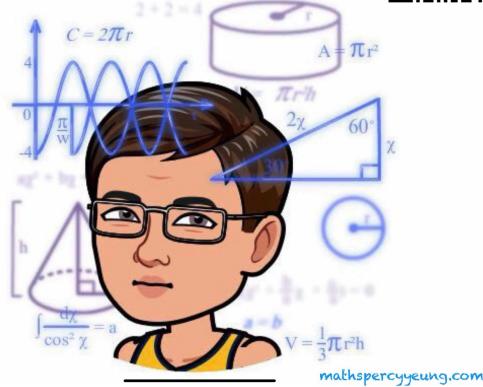
2025 – 2026 1B Mathematics Chapter Test
Textbook 1A Chapter 3

Name: _____ Class: _____ Class Number: _____ Marks: _____ / 25

****Complete ALL Questions with appropriate steps in the spaces provided.****

1. Simplify the following expressions.

(a) $3d + 5e - 2d - 6e$	(2 marks)	(b) $9r - 3 - 3r \times 2$	(2 marks)
(c) $q + 12p \div 3 + 2q - 2p$	(2 marks)		



2. (a) Given the formula $a = \frac{b^2}{b+2}$, find the value of a if $b = -4$. (3 marks)

(b) Given the formula $p = \frac{q^2}{12} - rs$. find the value of p if $q = -6$, $r = 3$ and $s = 2$. (3 marks)

3. It is given that the n th term of the sequence is $8n + 1$.

(a) Find the 11th term of the sequence. (2 marks)

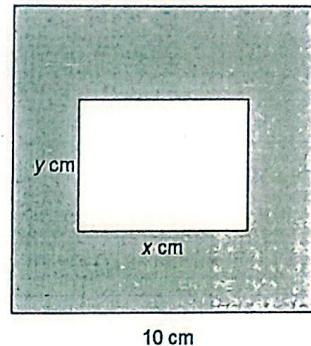
(b) Is the 11th term a square number? (1 mark)

4. For the sequence 1, 3, 9, 27, 81, ..., write down the next two terms of the sequence. (2 marks)

5. The figure shows a square of side 10 cm and a rectangle with length x cm and width y cm. It is given that the area of the shaded region is A cm².

(a) Find the formula for calculating the value of area A . (2 marks)

(b) If $x = 7$ and $y = 5$, find the area of the shaded region. (2 marks)



Each of the multiple choices questions carries 2 marks. Choose the best answer for each question.

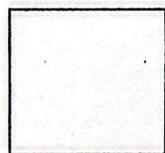
6. Find the 6th term in the sequence $\frac{7}{2}, \frac{5}{4}, \frac{3}{6}, \frac{1}{8}, -\frac{1}{10}, \dots$

A. $\frac{1}{12}$

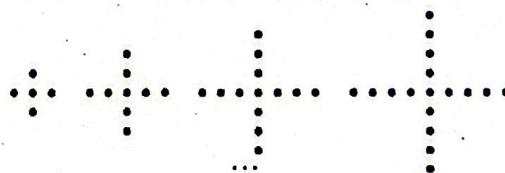
B. $-\frac{1}{12}$

C. $\frac{1}{4}$

D. $-\frac{1}{4}$



7. The following shows a sequence of figures formed by dots. The 1st figure consists of 5 dots. For any positive integer n , the $(n + 1)$ th figure is formed by adding 4 dots to the n th figure.



Figures: 1st 2nd 3rd 4th

How many dots are there in the 9th figure?

A. 33

B. 36

C. 37

D. 41

