

Practify AI
GBA Joint School Mathematics Competition

Secondary 1 Mathematics

Candidate Name : _____

School: _____

Seating Number : _____

Examination Time slot : _____

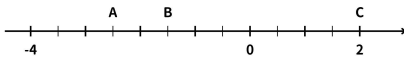
Candidate Instructions 考生須知

1. Read the instructions on the answer sheet carefully. Fill in the necessary information before the announced deadline.
細讀答題紙上的指示。宣布開考後，考生須首先於適當位置填上各項所需資料。宣布停筆後，考生不會獲得額外時間填上資料。
2. Check for any missing pages in the test booklet after the exam starts. "End of Paper" should be present after the last question.
試場主任宣布開卷後，考生須檢查試題有否缺漏，最後一題之後應有「全卷完」字樣。
3. Each question carries equal marks.
本試卷各題佔分相等。
4. Answer all questions. Circle answers on the answer sheet with a pencil and then answer on the electronic device. Double-check answers on the electronic test paper.
本試卷全部試題均須回答。為便於修正答案，考生宜用鉛筆先把答案填在答題紙上，並在電子設備上作答。考生須清楚作答題以電子設備為準，並於完成每一題及整份試題後檢查是否在電子試卷上填妥每題答案，否則會因答案未能被辨認而失分。
5. Select only one answer per question. Multiple answers will receive no marks.
每題只可填畫一個答案，若填畫多個答案，則該題不給分。
6. 答案錯誤，不另扣分。 Incorrect answers will not result in mark deductions.
7. Do not leave the exam room until the test is completed. Allocate time for reviewing the test paper if finished early.
考生於完成試題前不得提早離開考場，建議提早完成試題的考生預留時間檢閱試卷。

本試卷共 50 題。選擇每題中的最佳答案。

		算草紙(不計分)
1.	<p>以下哪個數字可被4整除? Which of the following number is divisible by 4?</p> <p>A. 5 784 318 B. 4 756 259 C. 3 284 072 D. 2 987 591</p>	
2.	<p>以下哪個是$2^3 \times 3^5 \times 5^8$和$2^4 \times 5^4 \times 7^2$的最大公因數? Which of the following is the H.C.F. of $2^3 \times 3^5 \times 5^8$ and $2^4 \times 5^4 \times 7^2$?</p> <p>A. $2^3 \times 3^5 \times 5^4 \times 7^2$ B. $2^3 \times 5^4$ C. $2^4 \times 3^5 \times 5^8 \times 7^2$ D. $2^4 \times 5^8$</p>	
3.	<p>找出最少的四個合成數的總和乘最少的四個整數的總和的值。 Find the value of the sum of the first four composite numbers multiply by the sum of the first four whole number.</p> <p>A. 6 B. 27 C. 33 D. 162</p>	
4.	<p>Giselle 花了一天的$\frac{1}{3}$休息。她花了一天的$\frac{1}{4}$溫習。剩餘的時間用於娛樂。她在娛樂上花了多少時間? Giselle spend $\frac{1}{3}$ of a day on taking a rest. $\frac{1}{4}$ of a day on revision. The remaining time on entertainment. How much time did she spend on entertainment?</p> <p>A. 2 小時 2 hours B. 6 小時 6 hours C. 10 小時 10 hours D. 12 小時 12 hours</p>	
5.	<p>以下哪條算式答案是正數? Which of the following is a positive number?</p> <p>A. $\frac{(-2)^{84}}{(-6)^{73}}$ B. $(-1)^{102} (+2)^{103} (-3)^{104}$ C. $\frac{(-42)(-38)}{(+72)(-57)}$ D. $\frac{(+11)(-22)}{(-33)(+44)(-55)}$</p> <p>A. A B. B C. C D. D</p>	

6. 在圖中, A, B 和 C 是數線上的三個點。找出 $A^2C - B$ 的值。
In the figure, A, B and C are three points on the number line. Find the value of $A^2C - B$.



- A. 11
B. -11
C. 14
D. -14

7. 求出 $[-\frac{1}{2} + (-\frac{1}{3}) - (-\frac{1}{4})] \times (3\frac{1}{3}) \div (-2\frac{4}{5})$ 的值。
Find the value of $[-\frac{1}{2} + (-\frac{1}{3}) - (-\frac{1}{4})] \times (3\frac{1}{3}) \div (-2\frac{4}{5})$.

- A. $\frac{25}{36}$
B. $-\frac{25}{36}$
C. $\frac{125}{252}$
D. $-\frac{125}{252}$

8. 一艘太空船現在位於-150米的位置(比太空站低150米)。它首先向上移動到+700米的位置,然後向下移動到-1200米的位置。求總行駛距離。
A spaceship is now at a position of -150 m (150 m below the space station). It first move upwards to the position of +700 m, then downwards to the position of -1200 m. Find the overall travelling distance.

- A. 650 m
B. 1900 m
C. 2600 m
D. 2750 m

9. 考慮公式 $y = \frac{a^2}{3bc}$, 若 $a = 0.4$, $b = -\frac{1}{2}$, $c = -4$, 求 y 的值。
Consider the formula $y = \frac{a^2}{3bc}$. If $a = 0.4$, $b = -\frac{1}{2}$, $c = -4$, find the value of y .

- A. $\frac{2}{75}$
B. $-\frac{2}{75}$
C. $\frac{1}{150}$
D. $-\frac{1}{150}$

10. 下列哪一個代數式可以表示 "4減x的平方的差乘三分之一的y" ?
Which of the following algebraic expression can represent the word phase "The difference of 4 minus square of x is multiplied by one third of y"?

- A. $4 - \frac{x^2y}{3}$
B. $\frac{y(4-x^2)}{3}$
C. $\frac{4-x^2y}{3}$
D. $\frac{(4-x^2)y}{3}$