

- 本考卷共有 6 道填空題，5 道選擇題，每題 10 分，不須填寫過程。
- 只需在方格內填寫英文字母（選擇題）或數值答案（填空題）
- There are 6 fill-in-blank questions and 5 MC questions in this paper, 10 marks each. Steps are not needed.
- Only fill in the English letters for MC questions, and numerical answers for Fill-in-Blank questions.

未有通知前不能翻閱試卷

Don't FLIP this paper

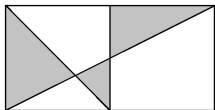
without consent.

姓名 Name _____ (in ID card)

學校 School _____ 座位編號 Seat No. _____

1. 下圖的矩形是由兩個邊長為 6 的正方形合併而成。求陰影區域的總面積 S 。

The figure shows a rectangle divided into 2 equal squares of side length 6. Find the area S of the shaded region.



$S =$

2. 在 $1, 2, \dots, 1049, 1050$ 中，不是 5 的倍數，也不是 7 的倍數的數共有多少個？

Among $1, 2, \dots, 1049, 1050$, how many of them are neither the multiples of 5 nor the multiples of 7?

3. 箱子裡有 x 個紅球和 y 個黑球。先多放 a 個黑球入箱，則紅球的數目占箱子裡全部球的數目的四分之一；然後再多放 a 個紅球入箱，則紅球的數目是黑球的三分之二。求比值 $\frac{y}{x}$ 。

In a box there are x red balls and y black balls. First put another a black balls to the box, the number of red balls is $\frac{1}{4}$ of the total number of balls in the box. Then put another a red balls into the box, the number of red balls is $\frac{2}{3}$ of that of black balls. Find the ratio $\frac{y}{x}$.

$\frac{y}{x}$

4. 記 $S(n)$ 為 n 的數字和，如 $S(130) = 1 + 3 + 0 = 4$ 。若 100 個連續正整數 $x, x+1, x+2, \dots, x+99$ 的和為 A 且 $S(A) = 50$ ，求 x 的最小值

Denote by $S(n)$ the sum of digits of n , for example $S(130) = 1 + 3 + 0 = 4$.

If the sum of 100 consecutive positive integers $x, x+1, x+2, \dots, x+99$ is A , and $S(A) = 50$, find the minimum value of x .

x 的最小值

The minimum value of x

2021 年小學組

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5. 計算 Evaluate

$$10 - 10.5 \div [5.2 \times 14.6 - (9.2 \times 5.2 + 5.4 \times 3.7 - 4.6 \times 1.5)]$$

6. 設 a, b, c 為數滿足 $b = 2a, c = 3b, 100 - a = 4c$ ，求 $a + b + c$ 。

a, b, c are numbers such that $b = 2a, c = 3b, 100 - a = 4c$, find $a + b + c$.

$a + b + c$

7. 若奇整數 n 是 5 的倍數，則 n^2 被 100 除後所得的餘數是

If n is odd and is a multiple of 5, then the remainder of n^2 divided by 100 is

A. 0 B. 25 C. 50 D. 75

8. 甲食了一個薄餅的 70%，乙食了餘下的三分之一，有多少剩下？

Ali eats 70% of a pizza, and Billy eats one-third of the remaining, what proportion of a pizza is left?

A. 10% B. 15% C. 20% D. 25%

9. 計算 $30 + 31 + \dots + 129 + 130$ 。

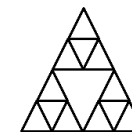
Evaluate the following $30 + 31 + \dots + 129 + 130$.

A. 8000 B. 8008 C. 8080 D. 8800

10. 右圖中有多少個三角形？

How many triangles are there in the figure?

A. 15 B. 16 C. 17 D. 18.



11. 某學生將某數乘以 -1.25 時漏了原有的負號，所得的結果比正確結果 X 小 0.25，則正確結果 X 是

When John multiplies a number by -1.25 , he forgets the given negative sign, and his wrong result is smaller than the correct answer X by 0.25. Then the correct answer X is

A. -0.25 B. -0.125 C. 0.125 D. 0.25