

請將答案寫在 答題紙 上。

All answers should be written on the ANSWER SHEET.

甲部：每題 4 分

Section A – each question carries 4 marks

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- 1) 運用「3」、「6」、「8」三個數字，可以組成 6 個不同的三位數。求這 6 個三位數的和。  
6 different three-digit numbers can be formed using the digits “3”, “6” and “8”. Find the sum of these 6 three-digit numbers.
- 2) 火車上原有乘客 352 名，到站後，有 175 人下車，169 人上車，火車上現有乘客多少名？  
There are 352 passengers on the train in the beginning. Upon arrival at the station, 175 passengers get off and 169 passengers get on. How many passengers are there on the train now?
- 3) 重覆寫出 20170312201703122017..... 的數字，第 90 個數字是甚麼？  
The number 20170312201703122017..... is written on and on. What is the 90<sup>th</sup> digit?
- 4) 求以下算式的值。  
Find the value of the following expression.  
 $1111 \times 1111111111$
- 5) 婉瑩比她的弟弟大 4 歲，婉瑩的爸爸比婉瑩的媽媽小 5 歲，婉瑩的媽媽現在 40 歲，婉瑩的爸爸是婉瑩年齡的 5 倍，問婉瑩的弟弟多少歲？  
Yolanda is 4 years older than her younger brother. Her father is 5 years younger than her mother. Yolanda's mother is now 40 years old. The age of Yolanda's father is 5 times that of Yolanda. How many years old is Yolanda's younger brother?
- 6) 餐廳買來 20 隻杯子和 20 隻碟子，共用去 540 元，一隻杯子比一隻碟子貴 3 元，一隻碟子多少元？  
A restaurant spends 540 dollars to buy 20 cups and 20 plates. A cup costs 3 dollars more than a plate. How much is a plate?
- 7) 求  $\underbrace{3 \times 3 \times 3 \times \dots \times 3}_{88 \text{ } 3}$  的個位數。  
Find the units digit of  $\underbrace{3 \times 3 \times 3 \times \dots \times 3}_{88 \text{ "3"s}}$ .
- 8) 若  $a \ b = a \times b - (a + b)$ ，求  $5 \ (8 \ 3)$  的值。  
If  $a \ b = a \times b - (a + b)$ , find the value of  $5 \ (8 \ 3)$ .

~ 甲部完 ~  
~ End of Section A ~

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乙部：每題 5 分

Section B – each question carries 5 marks

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9) 求  $\underbrace{2017}_{2017}\underbrace{2017\dots 2017}_{2017}$  除以 9 的餘數。

Find the remainder when  $\underbrace{20172017\dots 2017}_{2017 \text{ "2017"'s}}$  is divided by 9.

10) 圖 10.1 由數個不同大小的正方形組成，當中的數字代表它們的面積，求圖 10.1 的周界。

Figure 10.1 is formed by several squares of different sizes, where the numbers stand for their areas. Find the perimeter of figure 10.1.

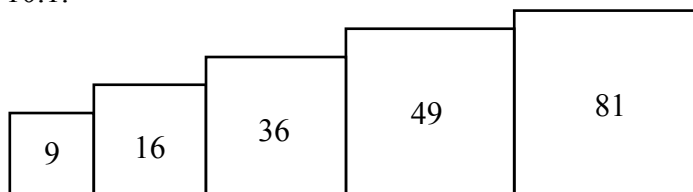


圖 10.1  
Figure 10.1

11) 下列算式中，除數和商相等，被除數最小是多少？

In the calculation below, the divisor and the quotient are equal. What is the least value of the dividend?

$$(\quad) \div (\quad) = (\quad) \dots 12$$

12) 在一條公路兩旁從頭到尾種樹 42 棵，每相鄰兩棵之間隔 8 米，這條公路長多少米？

42 trees are planted along a road from one end to another on both sides. Every two adjacent trees are 8 metres apart. How long is the road in metres?

13) 2 台除草機 5 小時可清除 80 平方米的草地，照這樣計算 5 台這樣的除草機清除 400 平方米的草地需要多少小時？

2 lawn mowers can clear a lawn of 80 square metres in 5 hours. At such rate, how many hours does it take for 5 lawn mowers to clear a lawn of 400 square metres?

14) 試用 6、2、0、9 這 4 個數字分成 2 組，分別組成 2 個兩位數，使兩數乘積最大。求這個積。

Split the 4 numbers 6, 2, 0 and 9 into 2 groups and form 2 two-digit numbers respectively so that their product is maximized. Find the product.

15) 在計算兩數相乘時，把其中一個數的個位數 4 寫錯成 9，結果得到的積是 722。若正確的積是 532，求較大的一個數。

In a multiplication of two numbers, the units digit 4 in one of the number is mistakenly written as 9 and as a result the product acquired is 722. If the correct product is 532. Find the larger number?

16) 若  $a > b$ ， $a \odot b = (a+2) \times (b-1)$ ；否則， $a \odot b = (b \times 2) + (a \times 3)$ 。求  $116 \odot (16 \odot (2 \odot 8))$  的值。

If  $a > b$ ， $a \odot b = (a+2) \times (b-1)$  . Otherwise,  $a \odot b = (b \times 2) + (a \times 3)$  . Find the value of  $116 \odot (16 \odot (2 \odot 8))$ .

請以最簡形式填寫答案。若計算結果是分數，請化至最簡，並確保為真分數或帶分數，或將計算結果寫成小數。

答案可以根式表示，唯該根式必須是最簡形式。除特別註明外，毋需填寫單位。錯誤單位將不給予任何分數。

Write down the answer in the simplest form. If the calculation result is a fraction, please write down the answer as a proper or mixed fraction, decimal figure is also accepted. You may use square root to represent the answer which is in the simplest form.

Unless otherwise stated, no need to write down any unit. Marks will NOT be given for incorrect unit.

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~ 乙部完 ~  
~ End of Section B ~

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丙部：每題 7 分

Section C – each question carries 7 marks

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- 17) 美儀一家四口的年齡加起來是 99 歲，弟弟比美儀小 8 歲，父親比母親大 2 歲。10 年前他們全家人年齡的和是 65 歲。問今年母親多少歲？

The four members in Mandy's family have their ages add up to 99. Her brother is 8 years younger than Mandy. Dad is 2 years older than Mum. 10 years ago, their ages added up to 65. How old is Mum this year?

- 18) 有多個三位偶數，各數位之和是 8，也沒有重覆的數字。這樣的三位偶數有幾個？

The digit sum of each of several three-digit even numbers is 8, with no repeated digits. How many such three-digit even numbers are there?

- 19) 美芬回家進大門按密碼「394052186」，但是密碼不正確，管理員說她把其中 2 個數字對調了。問美芬最多需要按多少組密碼？

Maffia enters the password "394052186" when she comes to the door. The gatekeeper says she has swapped two of the numbers. How many passwords at most does Maffia need to enter?

- 20) 有 55 張卡，其中 1 張上寫著「1」，2 張上寫著「2」，3 張上寫著「3」，……，10 張上寫著「10」。現在要從中抽取若干張，使卡上數字總和為 312，最多可以抽取多少張卡片？

There are 55 cards. "1" is written on 1 card, "2" on 2 cards, "3" on 3 cards, ....., "10" on 10 cards. Now several cards are picked so that the sum of the numbers on all cards is 312. How many cards can be picked at most?

~ 全卷完 ~

~ End of Paper ~

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