香港數學盃協會
Hong Kong Mathematics Cup Association

2020 香港 數學盃
Hong Kong Mathematics Cup 2020
全港綜合數學能力大賽

P1
問題簿
Question Booklet

姓名 Name：

參賽者編號 Reg No：

限時：35分鐘
不允許使用計算機。
考生須知：

1. 未宣布開始前， 切勿翻閱此問題簿。

2. 請在此問題簿封面的適當位置寫上你的姓名及參賽者編號。

3. 所有答案必須寫在答題紙內， 並須用鉛筆作答。 請勿填寫或畫花題號後方的圓圈，否則該題答案將會作廢。

4. 請核對答題紙上列出的資料是否與你相符。 如有問題，請舉手。

5. 比賽完結時監考員會收回桌上的草稿紙，但草稿紙上所書寫的任何文字或圖表將不獲評閱。

6. 問題簿的附圖不一定依比例繪成。

Time : 35 minutes
Calculators are NOT permitted.
Instructions :

1. DO NOT OPEN THIS QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO.

2. Write your name and registration number on the cover of this question booklet.

3. Please use a pencil and write your answers neatly ONLY on the answer sheet provided. DO NOT write or draw in the circle next to each answer box. No mark will be given if you failed to follow this instruction.

4. If the information printed on your answer sheet is not correct, please inform the invigilator immediately.

5. Rough-work sheets provided will be collected at the end of the contest but they will not be marked.

6. Diagrams in this question booklet are not necessarily drawn to scale.

Part 1   Calculation 運算題

1. $14 + 23 + 32 + 41 = ?$ [2 marks]

2. $33 - 45 + 66 = ?$ [2 marks]

3. $5 + 5 + 5 + 5 + 5 + 5 = ?$ [2 marks]

4. $31 - 4 - 6 = ?$ [2 marks]

5. $10 - 9 + 8 - 7 + 6 - 5 + 4 - 3 + 2 - 1 = ?$ [2 marks]

6. $16 + 47 + 34 = ?$ [2 marks]

7. $4 + 3 + 6 + 7 + 9 + 2 + 8 + 1 = ?$ [2 marks]
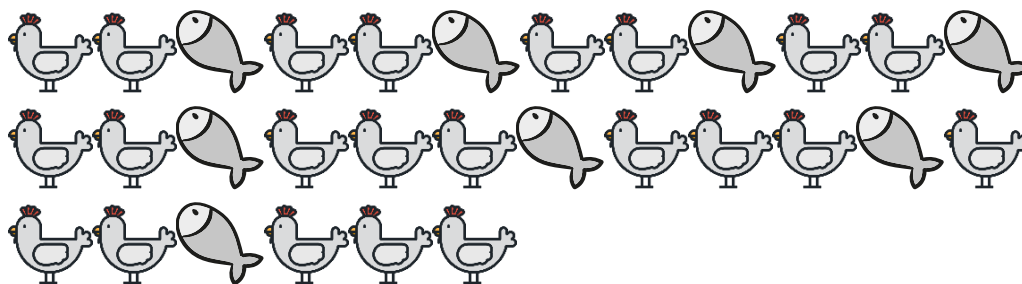
8. $100 - 37 = ?$ [2 marks]

Please turn over the page.

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Part 2   Fundamental Questions 基礎題

9. What is the odd number just between 38 and 41?　　在 38 和 41 之間的單數是甚麼？　[3 marks]

10. $17 - 8 = 4 + \bigstar$, $\bigstar = ?$　[3 marks]

11. In a park, there are 23 dogs, 16 apples and 35 cats. How many animals are there in the park?　公園裏有小狗 23 隻，蘋果 16 個，小貓 35 隻。公園裏共有動物多少隻？　[3 marks]

12. How many hens are there in the picture?　圖中有多少隻雞？　[3 marks]

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13. How many two-dollar coins can be exchanged for 6 five-dollar coins?

6 個五元硬幣可換成多少個二元硬幣？ [3 marks]

14. It is 1 o'clock now. One and a half hours ago, it is half past _____.

現在是 1 時正。一個半小時前，是_____時半。 [3 marks]

15. Christy is queuing to board a bus. She is the 7ᵗʰ from the front. Later, a bus arrives and picks up 4 people. How many people are in front of Christy now?

小潔在排隊搭巴士。由前面數起，她排在第七位。然後，一輛巴士到達，4 個人上車了。現在小潔前面有多少人？ [3 marks]

Please turn over the page.

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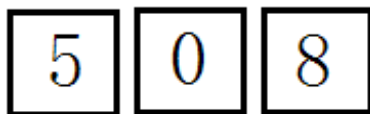16. 5th of April is Friday. What day of the week is 26th of April?   4 月 5 日是星期五。4 月 26 日是星期幾？   [3 marks]

17. Fill in the missing number.   填上適當的數字。   [3 marks]

38 - _____ = 15

18. How many 2-digit numbers can be formed with the number cards below?   用下面的數字卡可以拼出多少個兩位數？   [3 marks]

| 5 | 0 | 8 |

Please turn over the page.

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Part 3   O Math Questions 奧數題

19. The number that is on the right of 2 and under 15 is _____.

在 2 的右面，又在 15 的下面的數字是_____。

[4.5 marks]

1	11	15	5
10	6	3	12
16	2	8	7
8	13	4	14

20. Mother buys some tomatoes. She eats half of them and 14 tomatoes is left. How many tomatoes does mother buy?

媽媽買回一些番茄，吃掉一半後還剩 14 個。媽媽買回來的番茄共有多少個？

[4.5 marks]

Please turn over the page.

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21. Michael has 14 stickers. Michael gives 4 stickers to Lily, then Michael and Lily has the same number of stickers. How many stickers does Lily have originally?

小文有貼紙 14 枚。小文把 4 枚貼紙送給小莉後，二人有的貼紙一樣多。小莉原有貼紙多少枚？ [4.5 marks]

22. John wants to cut a piece of wood into 8 parts. How many times does he need to cut the wood?

小偉想把一根木頭分成 8 段。要切多少次？ [4.5 marks]

23. Read the pattern below. What is ★?

看看以下規律。★是甚麼? [4.5 marks]

1、13、2、15、3、17、4、★、☆

Please turn over the page.

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24. Johnson is 5 years old now and his mother is 29 years old. How old is her mother when Johnson is 18 years old?

小強今年 5 歲，媽媽今年 29 歲。小強 18 歲時媽媽多少歲？

[4.5 marks]

25. $\square + \square = 12,$

$\triangle + \square = 17,$

$\triangle - \stackrel{\wedge}{\square} - \stackrel{\wedge}{\square} = 3$

$\stackrel{\wedge}{\square} = ?$

$\square + \square = 12,$

$\triangle + \square = 17,$

$\triangle - \stackrel{\wedge}{\square} - \stackrel{\wedge}{\square} = 3$

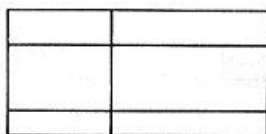$\stackrel{\wedge}{\square} = ?$

[4.5 marks]

26. How many rectangle are there in the picture?

數一數，下圖有多少個長方形？

[4.5 marks]

Please turn over the page.

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27. Read the picture below, which stone is the largest? (Answer in letter)　看圖片，哪塊石頭是最大的？（填上英文字母）　[4.5 marks]

At first
起初

After putting the stone
放入石頭後

?　?　?

Stone A　Stone B　Stone C
石頭 A　石頭 B　石頭 C

28. Ken and Mary have 18 pencils in total. Ken gives 4 pencils to Mary. How many pencils do they have in total now?　小明和小芳共有 18 支鉛筆，小明送給小芳 4 支，現在兩人共有多少支鉛筆？　[4.5 marks]

Please turn over the page.

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29. Fiona has 1 five-dollar coin, 2 two-dollar coins, 6 one-dollar coins. She wants to buy a pencil that cost 8 dollars. How many ways can she pay for it?

芳芳有 1 個 5 元，2 個 2 元，6 個 1 元，她要買 8 元的水彩筆，有多少種付款方法？ [4.5 marks]

30. Read the sums below.

看以下算式。 [4.5 marks]

$$
\begin{array}{r}
5\ A \\
+\,B\ 6 \\
\hline
9\ 4
\end{array}
$$

A + B = ?   A + B = ?

End of paper

全卷完