MathConception
2022

P2

Question Booklet

問題簿

Name:
姓名：

Reg. No.:
登記編號：

Time: 50 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. **If the information printed on your answer sheet is not correct, please inform the invigilator immediately.**
4. **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.**
5. **Unless otherwise specified, all answers must be in exact value and in its simplest form. Writing the units for the answers is NOT necessary.**
6. **Rough-work sheets provided will be collected at the end of the contest but they will not be marked.**
7. **Diagrams in this question booklet are not necessarily drawn to scale.**
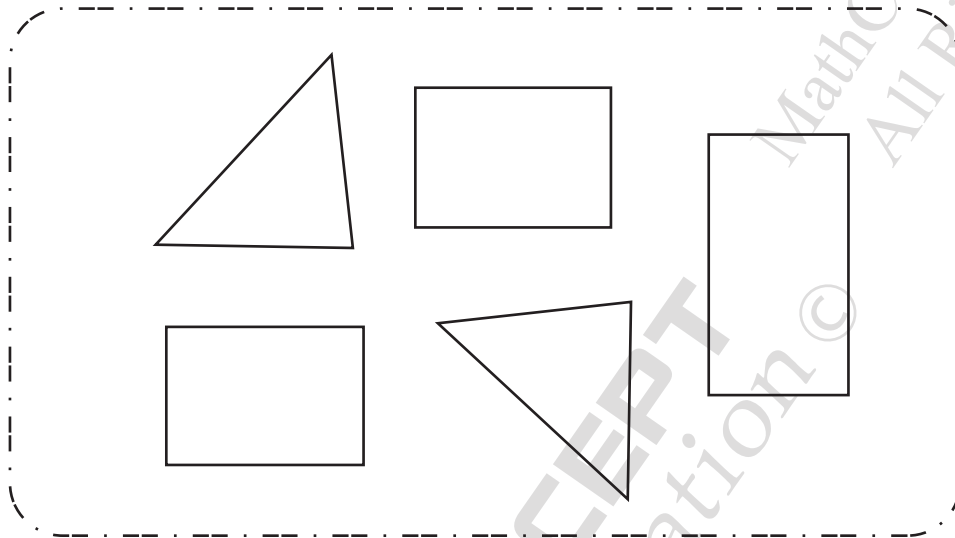
限時：**50 分鐘**
不允許使用計算機。

比賽須知：

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登記編號。

3. 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。

4. 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。

5. 除非題目特別表明，所有答案均不需填寫單位，但必須以準確數值及最簡方式表示。

6. 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。

7. 此問題簿的附圖不一定依比例繪成。

1)　　5 × 9 = ? 　　　　　　　　　　　　　　　　　[1%]

2)　　6 × 4 = ? 　　　　　　　　　　　　　　　　　[1%]

3)　　48 ÷ 6 = ? 　　　　　　　　　　　　　　　　[1%]

4)　　27 ÷ 9 = ? 　　　　　　　　　　　　　　　　[1%]

5)　　813 + 93 = ? 　　　　　　　　　　　　　　　[1%]

6)　　65 – 39 = ? 　　　　　　　　　　　　　　　　[1%]

7)　　249 + 457 = ? 　　　　　　　　　　　　　　　[1%]

8)　　525 + 128 = ? 　　　　　　　　　　　　　　　[1%]

9)　　365 – 28 = ? 　　　　　　　　　　　　　　　[1%]

10)　　330 – 114 = ? 　　　　　　　　　　　　　　[1%]

11)　　116 + 46 + 726 = ? 　　　　　　　　　　　　[1%]

12)　　388 + 430 – 509 = ? 　　　　　　　　　　　[1%]

13)　　700 – 249 – 77 = ? 　　　　　　　　　　　　[1%]

14)　　2 × 5 × 7 = ? 　　　　　　　　　　　　　　[1%]

15)　　7 × 4 + 2 = ? 　　　　　　　　　　　　　　[1%]

16) What 3D shape can be formed by the figures below? [2%]

下方的圖形可拼成哪一個立體？

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17) 7 metres and 23 centimetres = ____?____ centimetres [2.1%]

7 米 23 厘米 = ____?____ 厘米

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18) If a quiz starts from half past nine in the morning to ten twenty-five in the morning, it takes __?__ minutes. [2.2%]

若某測驗是由上午九時半開始至上午十時二十五分，該測驗長 __?__ 分鐘。

19) There were 324 pieces of cake in a shop originally. 190 pieces were sold in the morning and 59 pieces were sold in the afternoon. How many pieces of cake were left? [2.3%]

店內原有 324 件蛋糕，上午賣出 190 件，下午賣出 59 件，還有蛋糕多少件？

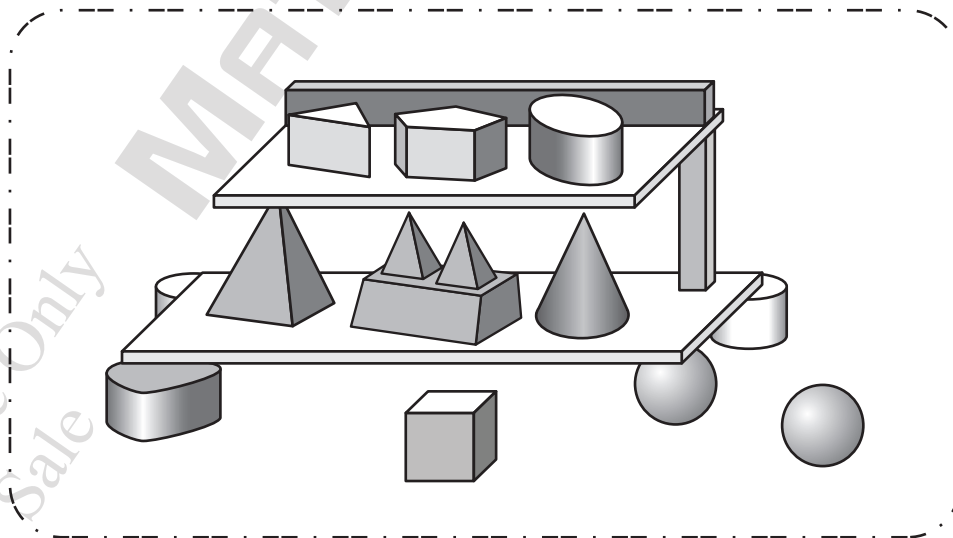20) There are 38 students in a class. If they are divided in groups of 4, how many students are left? [2.4%]

班上有 38 位學生。若每 4 位學生分成一組，還剩下學生多少位？

21) What is the difference between the largest 3-digit even number and the smallest 3-digit odd number? [2.5%]

最大的三位雙數與最小的三位單數之差是多少？

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22) How many prisms are there in the figure below? [2.6%]

下圖共有多少個角柱？

23) The price of a cup of ice cream is 12 dollars and 40 cents. Each additional topping costs 2 dollars and 80 cents. If Sally buys a cup of ice cream with 2 additional toppings, how much does she pay? [2.7%]

一杯雪糕的售價是 12 元 4 角，每加一款配料需要 2 元 8 角。若小倩買了一杯雪糕加 2 款配料，她須付多少元？

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24) A red ribbon is 4 m 15 cm long. It is 160 cm shorter than a yellow ribbon. If they are glued together and the length of the glued ribbon is 833 cm, how long is the overlapping part in cm? [2.8%]

紅色絲帶長 4 米 15 厘米。它比黃色絲帶短 160 厘米。若把兩條絲帶貼在一起，貼起後的絲帶長 833 厘米，那麼重疊部分長多少厘米？

25) Form 4-digit numbers by using the digits below. The digits in each formed number must be different. How many even numbers can be formed which are smaller than 2500? 　　　　　[2.9%]

利用以下數字組成四位數，而每個四位數內的數字不可重複，可組成多少個比 2500 小的雙數？

$$9 , 0 , 2 , 7 , 5 , 4$$

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26) A banana is on the right of a monkey. If the back of the monkey is pointing towards the west, the monkey is to the ___?___ of the banana. 　　　　　[3.0%]
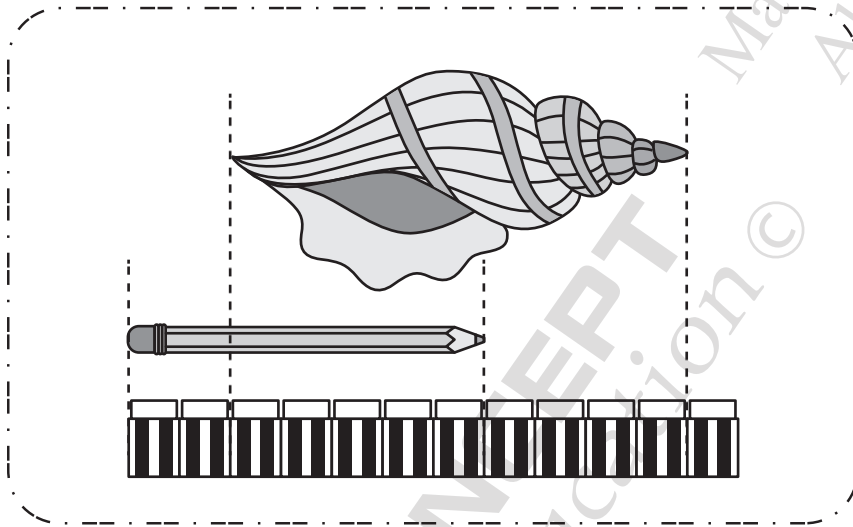
一隻猴子的右方有一隻香蕉。若猴子的背面是西方，猴子在香蕉的 ___?___ 。

A. east   　　B. south   　　C. west   　　D. north
東方   　　　　南方   　　　　西方   　　　　北方
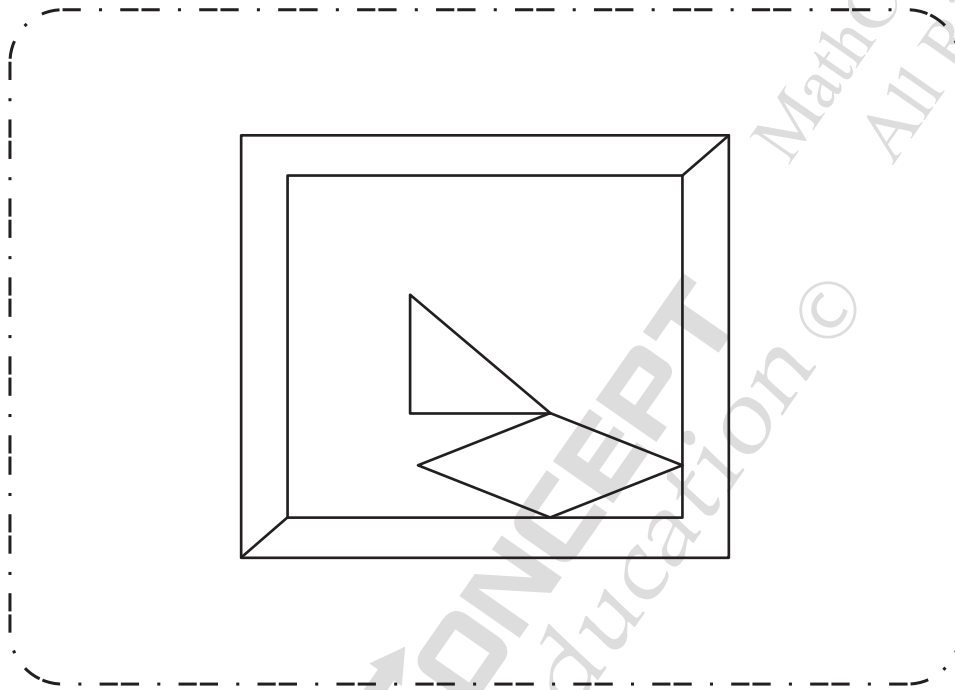
27) In the figure below, if the pencil is 14 cm long, how long [3.1%] is the shell in centimetres?

下圖中，如果鉛筆長 14 厘米，那麼貝殼長多少厘米？

28) How many acute angles are there in the figure below? [3.2%]

下圖共有多少個銳角？

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29) A radio station broadcasts 8 programmes every hour. How many programmes does it broadcast from 8 : 00 p.m. to 3 : 00 a.m.? [3.3%]

一個電台每小時會播放 8 個節目。由下午 8 : 00 至上午 3 : 00 該電台共播放節目多少個？

30) Given that 31st January is Friday in 2020. Which day of the week is 7th March in that year?   [3.4%]

已知在 2020 年，1 月 31 日是星期五。問該年的 3 月 7 日是星期幾？

31) Last year, Martin was 16 years old. He is 2 years younger than Nick. What is their total age now?   [4.0%]

小馬上年 16 歲。他比大力小 2 歲。他們現在合共多少歲？

32) Find the missing number in the pattern. [4.1%]

根據規律，找出橫線上的數字。

$$100 \ , \ 96 \ , \ 91 \ , \ \underline{\ ? \ } \ , \ 78 \ , \ 70 \ , \ ...$$

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33) Find the value of $686 + 151 + 42 - 85 + 49 - 115 - 62$. [4.2%]

求 $686 + 151 + 42 - 85 + 49 - 115 - 62$ 的值。

34) Peter has 3 five-dollar coins, 2 two-dollar coins and 5 one-dollar coins. Paul has 3 five-dollar coins and 6 fifty-cent coins. How much should Peter give to Paul such that both of them have the same amount of money? [4.3%]

小德有 3 個五元硬幣、2 個二元硬幣及 5 個一元硬幣。小望有 3 個五元硬幣及 6 個五角硬幣。小德應該給小望多少元，兩人才有相同金額？

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35) Each letter represents a 1-digit number. Find the value of A. [4.4%]

如果每個英文字母代表一個一位數，求 A 的數值。

$$
\begin{array}{cccc}
 & B & B & C \\
+ & & B & A \\
\hline
 & C & 1 & 0 \\
\end{array}
$$

36) Andy and Benny are in the same queue. Andy is in the 7th place counting from the front. There are 20 people standing behind Benny. If there are 11 people standing between them, how many people are there in the queue? [4.5%]

小倫與小濤在同一隊伍中。從隊伍的前頭數起小倫排第七，而小濤後面有 20 人排隊。若有 11 人排在他們之間，隊伍中有多少人？

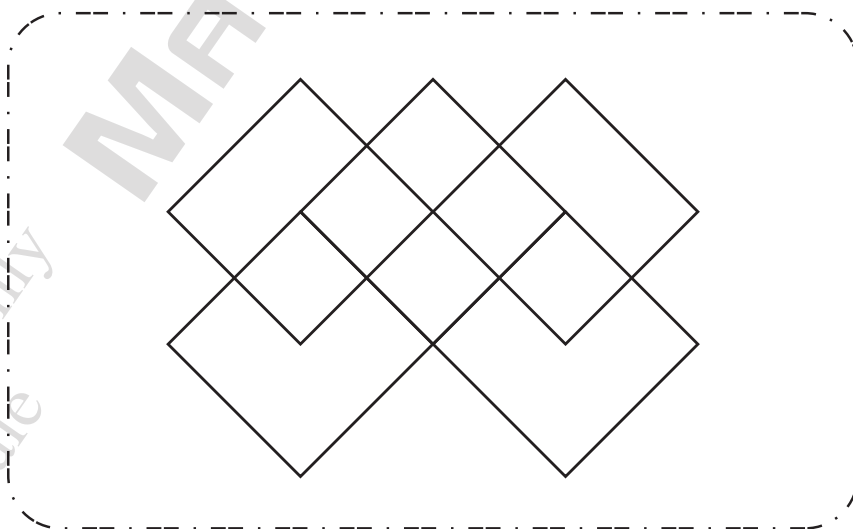37) Find the value of 999 – 998 + 997 – 996 +…+ 951 – 950. [4.6%]

求 999 – 998 + 997 – 996 +…+ 951 – 950 的值。

38) *XYZ* is a 3-digit number, where *X*, *Y* and *Z* are different [4.7%] numbers. Given that the sum of *X*, *Y* and *Z* is 10 and *X* – *Y* = 7. What is the number *XYZ*?

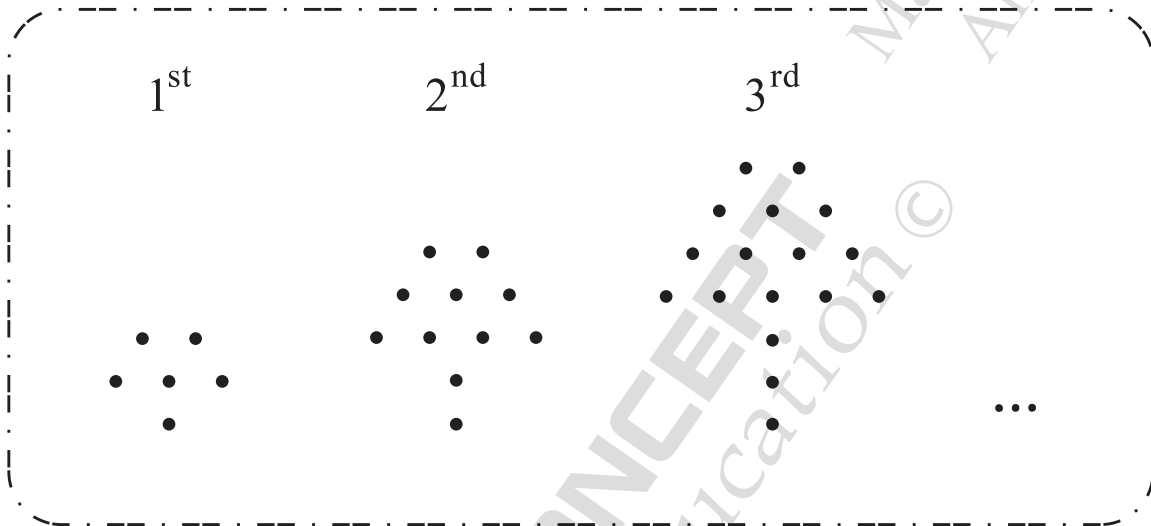*XYZ* 是一個三位數，而 *X*、*Y* 和 *Z* 是不同數字。如果 *X*、*Y*、*Z* 之和是 10，而 *X* – *Y* = 7，*XYZ* 這個數字是甚麼？

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39) How many rectangles are there in the figure below? [4.8%]

下圖共有多少個長方形？

40) Find the number of dots in the 8th figure below. [4.9%]

求下面第 8 組圖案中圓點的數目。

End of paper
全卷完

MATH CONCEPTION 數學·思維大激鬥

REG NO	
NAME	
GROUP	
SEAT	

P2

ANSWER SHEET

	ANSWER			ANSWER			ANSWER			ANSWER	
1	45	○	11	888	○	21	897	○	31	36	○
2	24	○	12	309	○	22	8	○	32	85	○
3	8	○	13	374	○	23	18	○	33	666	○
4	3	○	14	70	○	24	157	○	34	3	○
5	906	○	15	30	○	25	6	○	35	4	○
6	26	○	16	Triangular prism / 三角柱	○	26	D / North / 北方	○	36	39	○
7	706	○	17	723	○	27	18	○	37	25	○
8	653	○	18	55	○	28	14	○	38	703	○
9	337	○	19	75	○	29	56	○	39	25	○
10	216	○	20	2	○	30	Saturday / (星期)六	○	40	62	○

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