



# MathConceptition

## 2019

# P2

# Question Booklet

# 問題簿

Name:

姓名：

Reg. No.:

登記編號：

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Time: 1 hour

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.

限時：1小時

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登記編號。
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. 此問題簿的附圖不一定依比例繪成。

- 1)  $4 \times 7 = ?$  [1%]
- 2)  $6 \times 9 = ?$  [1%]
- 3)  $42 \div 7 = ?$  [1%]
- 4)  $64 \div 8 = ?$  [1%]
- 5)  $44 - 26 = ?$  [1%]
- 6)  $153 + 78 = ?$  [1%]
- 7)  $259 - 136 = ?$  [1%]
- 8)  $375 + 234 = ?$  [1%]
- 9)  $416 - 164 = ?$  [1%]
- 10)  $4 \times 2 \times 9 = ?$  [1%]
- 11)  $36 \div 4 \div 3 = ?$  [1%]
- 12)  $7 \times 8 - 18 = ?$  [1%]
- 13)  $48 \div 6 + 2 = ?$  [1%]
- 14)  $9 \times 7 + 46 = ?$  [1%]
- 15)  $54 \div 6 - 9 = ?$  [1%]

16) 3 hours 45 minutes =     ? minutes [2.0%]

3 小時 45 分鐘 =     ? 分鐘

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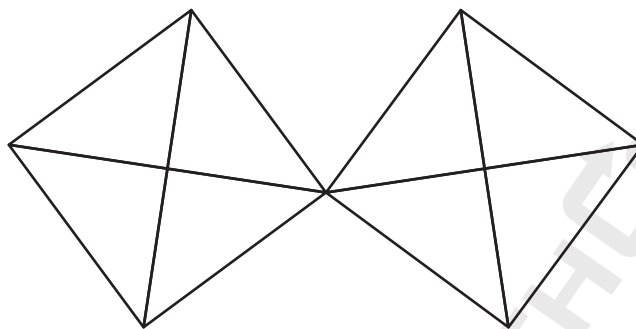
17) A watermelon is 39 g heavier than 4 kg. What is the weight of the watermelon in grams? [2.1%]

一個西瓜比 4 公斤重 39 克，問這個西瓜重多少克？

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18) How many right angles are there in the figure below? [2.2%]

下圖共有多少個直角？

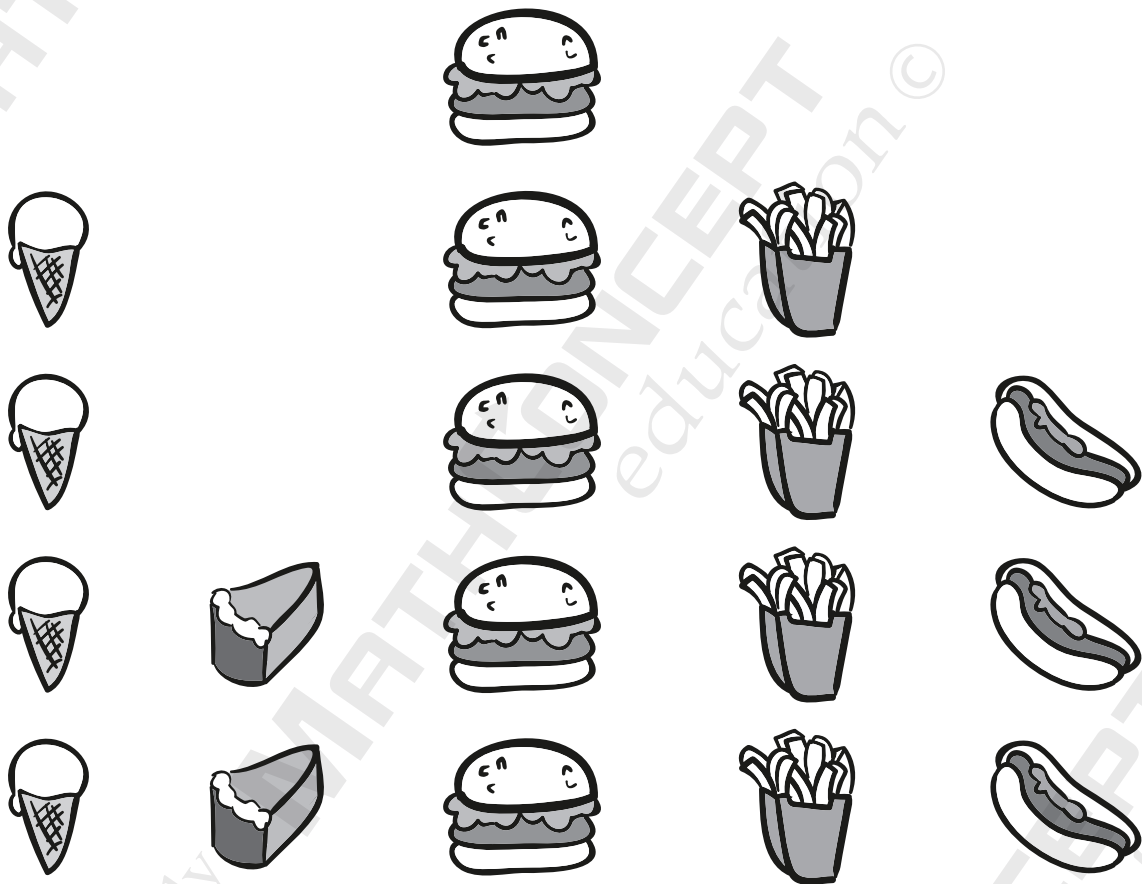


- 19) The pictogram below shows the number of food items in a fast food restaurant. [2.3%]

下圖顯示了快餐店內各種食物的數量。

Each picture represents 1 food item

每圖代表 1 個

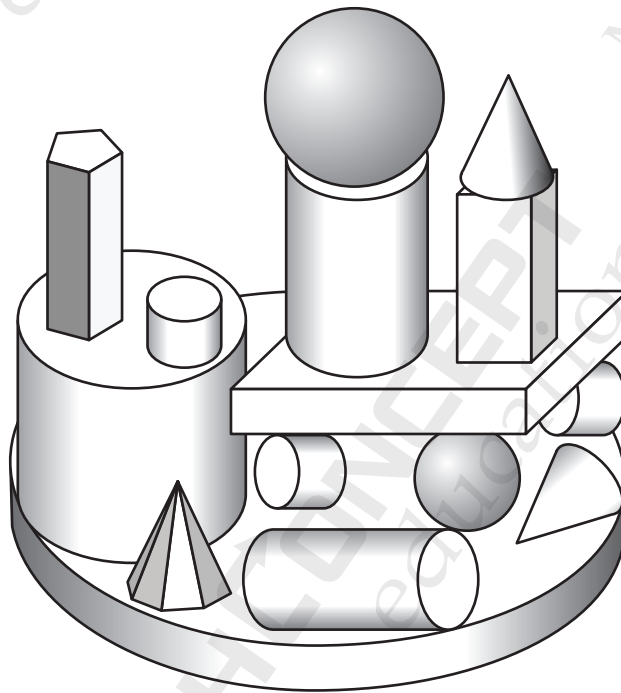


The total number of hamburgers and hotdogs is \_\_\_\_\_ more than the number of cheese cakes.

漢堡包和熱狗的總數比蛋糕多 \_\_\_\_\_ 個。

- 20) How many cylinders are there in the figure [2.4%]  
below?

下圖共有多少個圓柱體？



- 21) A hexagonal prism has \_\_\_\_?\_\_\_\_ faces. [2.5%]

六角柱體共有 \_\_\_\_?\_\_\_\_ 個面。

- 22) Jacky and Thomas are standing face to face. If [2.6%]  
Jacky is facing the west, then the \_\_\_\_ is on  
the right of Thomas.

小棋和小斯面對面站著。若小棋面向西方，  
小斯的右面會是 \_\_\_\_ 方。

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- 23) Form the smallest 4-digit even number by [2.7%]  
using the digits below.

利用以下數字，組成一個最小的四位雙數。

2 , 7 , 0 , 1 , 9

- 24) I can use \_\_\_ ? \_\_\_ sticks and 7 plasticine balls to [2.8%]  
make a hexagonal pyramid.

我可以用 \_\_\_ ? \_\_\_ 支竹籤和 7 粒泥膠來製作  
一個六角錐體。

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- 25) Find the product of the hundreds digit of [2.9%]  
4376 and the tens digit of 2879.

4376 的百位數字乘以 2879 的十位數字是多少？

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- 26) Mandy bought a watch at 68 dollars and 80 [3.0%]  
cents, which was 15 dollars and 60 cents  
cheaper than the original price. What was the  
original price of the watch?

小迪用 68 元 8 角買了一隻手錶，比原價便宜了  
15 元 6 角，問手錶的原價是多少元多少角？

- 27) Two ribbons are 2 m 75 cm and 6 m 7 cm long [3.1%]  
respectively. If they are glued together and the  
overlapping part is 194 cm long, how long is  
the whole ribbon in cm?

把兩條分別長 2 米 75 厘米和 6 米 7 厘米的絲  
帶貼起，重疊部分長 194 厘米，即整條絲帶長  
多少厘米？

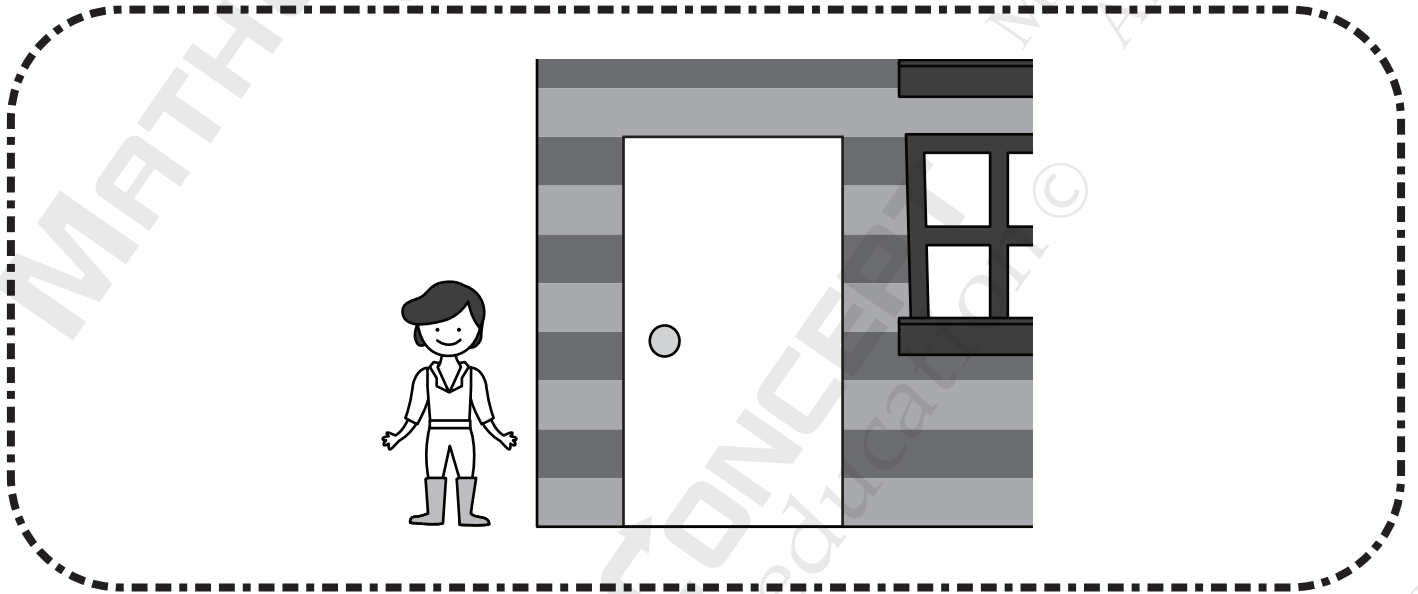
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- 28) Johnny decided to use 100 days to finish a [3.2%]  
puzzle. He started puzzling on 5<sup>th</sup> June and  
finished it on 19<sup>th</sup> September. How many more  
days did he actually use than what he  
planned?

小明計劃用 100 天完成一幅拼圖。他由 6 月 5 日  
開始直至 9 月 19 日才完成。問他實際的完成  
時間比原定的多了多少天？



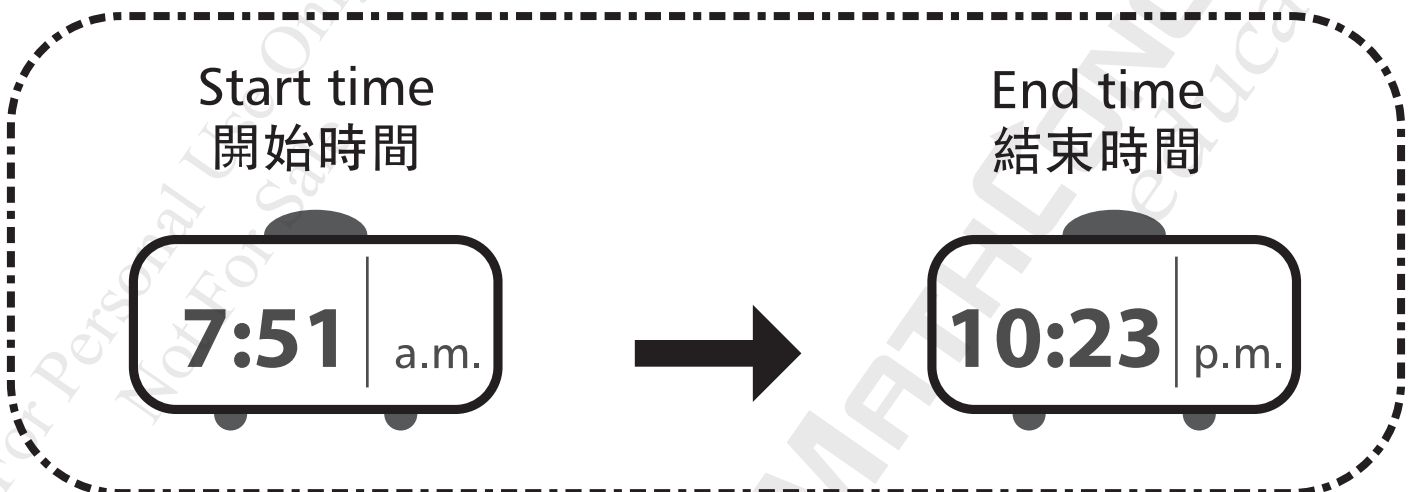
- 29) In the figure, the boy is 1 metre tall. What is the approximate height, in cm, of the door? [3.3%]

下圖中，男孩的高度是1米，門的高度大約是多少厘米？



- 30) How many hours and how many minutes have passed? [3.4%]

過了幾小時幾分鐘？



- 31) A rectangular paper is 24 cm long and 18 cm wide. How many squares with side length of 3 cm can be cut from the rectangular paper? [4.0%]

長方形工作紙長 24 cm，闊 18 cm。它可以被剪成多少個邊長是 3 cm 的正方形？

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

根據規律，找出橫線上的數字。

3 , 12 , 6 , 24 ,      , 48 , 24 , ...

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- 33) The cost of 4 apples and 3 oranges is \$29. The cost of 2 apples and 1 orange is \$12. What is the cost of 1 orange? [4.2%]

4 個蘋果和 3 個橙共售 29 元。2 個蘋果和 1 個橙共售 12 元。問 1 個橙售多少元？

- 34) There is a 4-digit number, [4.3%]  
 ( i ) the sum of its digits is 28;  
 ( ii ) the sum of its units digit and hundreds digit is 17;  
 ( iii ) the tens digit stands for 30; and  
 ( iv ) it is an odd number.  
 What is the number?

有一個四位數，

- ( i ) 它的四個數字之和是28；  
 ( ii ) 它的個位數字和百位數字之和是17；  
 ( iii ) 它的十位數字表示30；  
 ( iv ) 它是一個單數。

這個四位數是甚麼？

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- 35) If  $A = 1$ ,  $B = 2$ ,  $C = 3$  and so on, what is the [4.4%]  
 units digit of the following product?

假設  $A = 1$ ,  $B = 2$ ,  $C = 3$ ，如此類推，求以下乘法結果的個位數字。

$$V \times W \times X \times Y \times Z$$

- 36) The bus comes every 45 minutes. The first bus arrived at 8:40 a.m. Johnny arrived the bus stop at 11:56 a.m. He has to wait \_\_\_\_\_ minute(s) for the next bus to come. [4.5%]

巴士每 45 分鐘一班，頭班車在上午 8 時 40 分開出。小強在上午 11 時 56 分抵達巴士站，他要等 \_\_\_\_\_ 分鐘才能上車。

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- 37) It is given that  $39 \times 52 = 2028$ . Find the remainder of  $2019 \div 26$ . [4.6%]

已知  $39 \times 52 = 2028$ 。那麼  $2019 \div 26$  的餘數是多少？

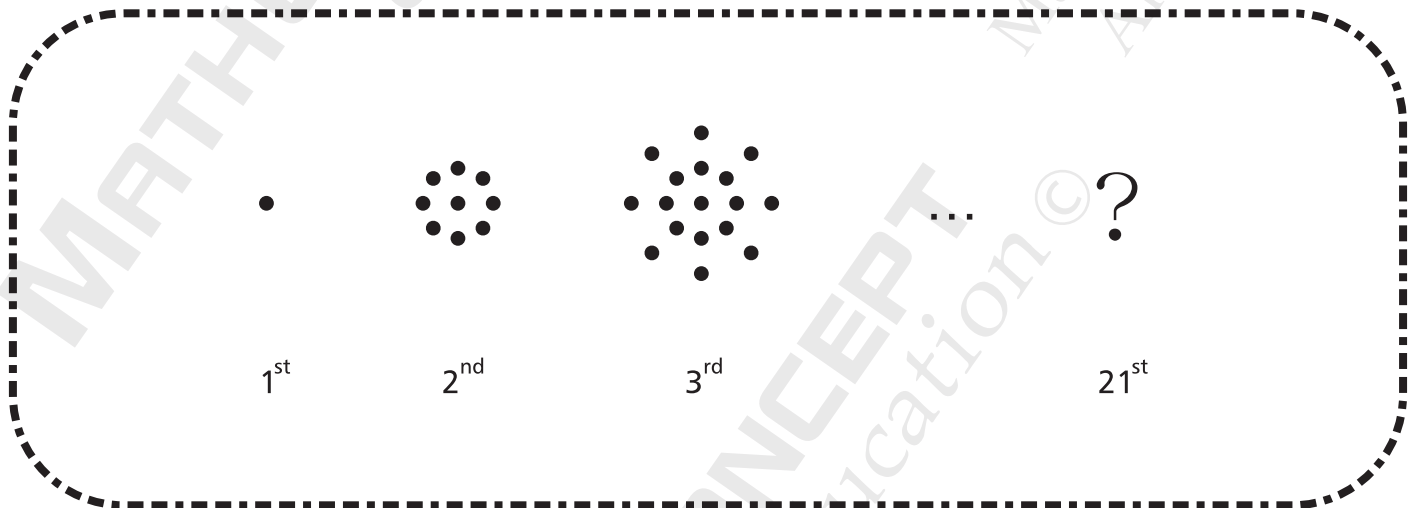
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- 38) Simon has more than 1 but less than 100 candies. No matter he divides them into groups of 4, groups of 5, or groups of 6, there is 1 candy remaining. How many candies does Simon have? [4.7%]

小文有多於 1 粒但少於 100 粒糖果。他無論把它們分成 4 粒一組、5 粒一組或 6 粒一組，也剛好剩餘 1 粒。問小文有糖果多少粒？

- 39) How many more dots are there in the 21<sup>st</sup> figure than that in the 8<sup>th</sup> figure? [4.8%]

圖中第 21 組圖案的圓點比第 8 組圖案的圓點多幾粒？



- 40) At most how many right angles can be formed when drawing 4 squares on a paper? [4.9%]

在一張紙上畫 4 個正方形，最多可以形成多少個直角？



REG NO			P2
NAME			
GROUP			
SEAT			

ANSWER SHEET

ANSWER		ANSWER		ANSWER		ANSWER	
1 28	<input type="radio"/>	11 3	<input type="radio"/>	21 8	<input type="radio"/>	31 48	<input type="radio"/>
2 54	<input type="radio"/>	12 38	<input type="radio"/>	22 南 south	<input type="radio"/>	32 12	<input type="radio"/>
3 6	<input type="radio"/>	13 10	<input type="radio"/>	23 1072	<input type="radio"/>	33 5 元 \$5	<input type="radio"/>
4 8	<input type="radio"/>	14 109	<input type="radio"/>	24 12	<input type="radio"/>	34 8839	<input type="radio"/>
5 18	<input type="radio"/>	15 0	<input type="radio"/>	25 21	<input type="radio"/>	35 0	<input type="radio"/>
6 231	<input type="radio"/>	16 225	<input type="radio"/>	26 84 元 4 角 \$84.40	<input type="radio"/>	36 29	<input type="radio"/>
7 123	<input type="radio"/>	17 4039	<input type="radio"/>	27 688	<input type="radio"/>	37 17	<input type="radio"/>
8 609	<input type="radio"/>	18 16	<input type="radio"/>	28 7	<input type="radio"/>	38 61	<input type="radio"/>
9 252	<input type="radio"/>	19 6	<input type="radio"/>	29 160	<input type="radio"/>	39 104	<input type="radio"/>
10 72	<input type="radio"/>	20 7	<input type="radio"/>	30 14 小時 32 分鐘 14 hr and 32 min	<input type="radio"/>	40 64	<input type="radio"/>