



MathConcept

2024

P2

Question Booklet

問題簿

Time: 50 Minutes
Calculators are NOT permitted.

Instructions:

- DO NOT OPEN THIS QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO.**
- If the information printed on your answer sheet is not correct, please inform the invigilator immediately.**
- 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.**
- Unless otherwise specified, all answers must be in exact value and in its simplest form. Writing the units for the answers is NOT necessary.**
- Rough-work sheets provided will be collected at the end of the contest but they will not be marked.**
- 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：

- 未宣布開始前，切勿翻閱此問題簿。
- 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。
- 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。
- 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。
- 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。
- 此問題簿的附圖不一定依比例繪成。

- 1) $2 \times 8 = ?$ [1%]
- 2) $7 \times 9 = ?$ [1%]
- 3) $18 \div 3 = ?$ [1%]
- 4) $48 \div 6 = ?$ [1%]
- 5) $323 + 73 = ?$ [1%]
- 6) $270 + 288 = ?$ [1%]
- 7) $658 + 643 = ?$ [1%]
- 8) $91 - 47 = ?$ [1%]
- 9) $586 - 54 = ?$ [1%]
- 10) $927 - 278 = ?$ [1%]
- 11) $103 + 251 + 424 = ?$ [1%]
- 12) $886 - 358 - 83 = ?$ [1%]
- 13) $276 - 119 + 343 = ?$ [1%]
- 14) $3 \times 9 + 24 = ?$ [1%]
- 15) $47 \times 2 = ?$ [1%]

- 16) It is six fifteen in the afternoon now. The hour hand and minute hand of the clock form a/an _____? [2%]

現在是下午六時十五分。鐘面上的時針和分針形成一個 _____。

A) right angle
直角

B) acute angle
銳角

C) obtuse angle
鈍角

-
- 17) Every 9 pears are put into a box. If there are 49 pears, at most how many boxes can be filled? [2.1%]

每個盒可放 9 個梨。如果有 49 個梨，最多可放滿盒多少個？

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- 18) A street lamp is 5 m tall, which is 4 cm taller than a tree. How tall is the tree in cm? [2.2%]

街燈高 5 米，比樹高 4 厘米。樹高多少厘米？

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-
- 19) The museum organized an exhibition. It started from 27th June and lasted for 3 weeks. On which date did the exhibition end? [2.3%]

博物館舉辦了一場展覽，由 6 月 27 日開始，為期 3 星期。展覽在哪一天結束？

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- 20) Donald has two boxes of leaflets. One box contains 325 leaflets, which is 275 leaflets less than the other box. How many leaflets does Donald have? [2.4%]

仲瑋有兩箱傳單，一箱有 325 張，比另一箱少 275 張。仲瑋共有多少張傳單？

-
- 21) Each tube of toothpaste costs 28 dollars 40 cents, while each twin pack of toothpaste costs 52 dollars 80 cents. If Jimmy buys 5 tubes of toothpaste, at least how much should he pay? [2.5%]
(Give the answer with units)

一支牙膏售 28 元 4 角，而兩件裝的牙膏則售 52 元 8 角。如果嘉豪購買 5 支牙膏，最少需付款多少？
(答案需填寫單位)

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- 22) There are 432 pens in a stationery shop. 178 of them are red pens and the rest are blue pens. A teacher buys 47 pencils and 63 blue pens for his students. How many blue pens are left in the shop? [2.6%]

文具店內有 432 枝原子筆，其中有 178 枝紅原子筆，其餘的是藍原子筆。老師為他的學生買了 47 枝鉛筆和 63 枝藍原子筆。店內餘下多少枝藍原子筆？

-
- 23) Sharon buys a Sudoku puzzle book and she completes 8 puzzles every day. It takes her a week to finish all the puzzles. At least how many puzzles are there in the book? [2.7%]

美鈴買了一本數獨題集，每天完成 8 題，花了一星期做完所有題目。題集內最少有多少題數獨？

- 24) A prism has the same number of faces as a pyramid. If all the faces of the prism have the same shape, the pyramid must be a _____ pyramid. [2.8%]

一個柱體和一個錐體有相同數量的面。如果這個柱體的所有面都有相同的形狀，這個錐體必定是一個 _____ 錐。

-
- 25) An artist starts drawing at half past eleven in the morning. It takes him 7 minutes to finish drawing a portrait. By twelve twenty-two in the afternoon, at most how many portraits can he finish? [2.9%]

一名畫家於上午十一時半開始畫畫。他完成一幅人像畫需時7分鐘。直至下午十二時二十二分，他最多可完成多少幅人像畫？

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- 26) Chole and John are standing back-to-back. If the coloured tip of the compass needle points to the left of Chole, then John is facing the ____? ____ [3%]

小麗和小允背靠背站着。如果指南針的深色指針指向小麗的左面，那麼小允面向 ____? ____。

- A) east B) south C) west D) north
東方 南方 西方 北方

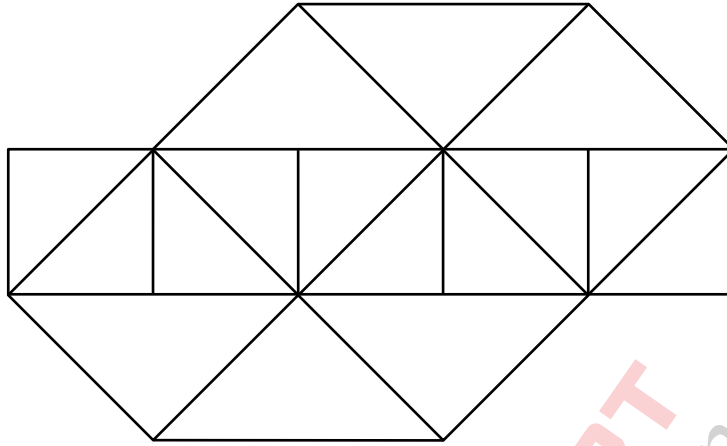
-
- 27) Find the missing number. [3.1%]

找出橫線上的數字。

555 , 603 , 528 , 576 , 501 , , 474

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

下圖共有多少個直角？



- 29) There is a 4-digit odd number. The sum of the digits in its hundreds place and units place is 17, while the sum of all its digits is 18. [3.3%]

What is the number?

有一個四位奇數，它的百位和個位數字之和是 17，而它的所有數字之和是 18。這個數是多少？

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- 30) A monkey and a gorilla are 550 m apart. The monkey throws a banana 175 m away, while the gorilla throws another banana 185 m away. What is the difference between the shortest and longest possible distances between two bananas in metres? [3.4%]

一隻猴子和一隻猩猩相距 550 米。猴子把一條香蕉拋到 175 米外，而猩猩把另一條香蕉拋到 185 米外。兩條香蕉之間最短和最長的可能距離相差多少米？

-
- 31) Find the value of $373 - 456 - 158 + 227 - 444 + 367 + 578$. [4%]

求 $373 - 456 - 158 + 227 - 444 + 367 + 578$ 的值。

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

找出橫線上的數字。

1016 , 1109 , 1202 , 1255 , , 2411 , 3344

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- 33) Each letter represents a 1-digit number. Find X. [4.2%]

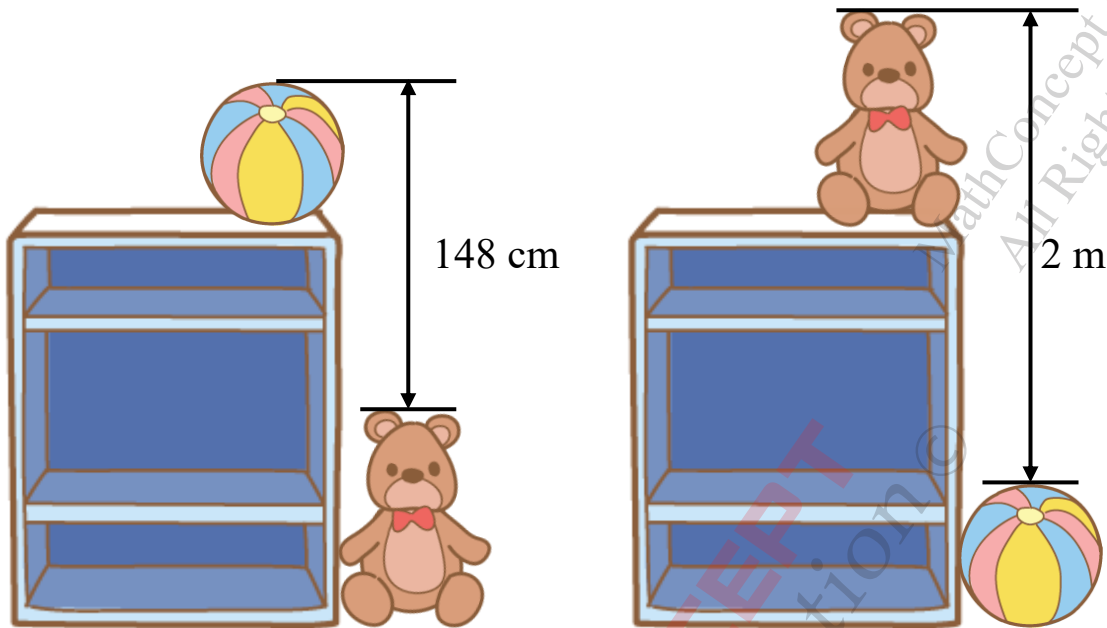
每個英文字母代表一個一位數，求 X。

$$\begin{array}{r}
 \\
 \\
 + \\
 \hline
 1
 \end{array}$$

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- 34) How tall is the bookshelf in cm? [4.3%]

書架的高度是多少厘米？



- 35) If Vivian only uses 5-dollar, 2-dollar, 50-cent and 20-cent coins to pay 25 dollars 30 cents for a cup of milkshake, at least how many coins does she pay? [4.4%]

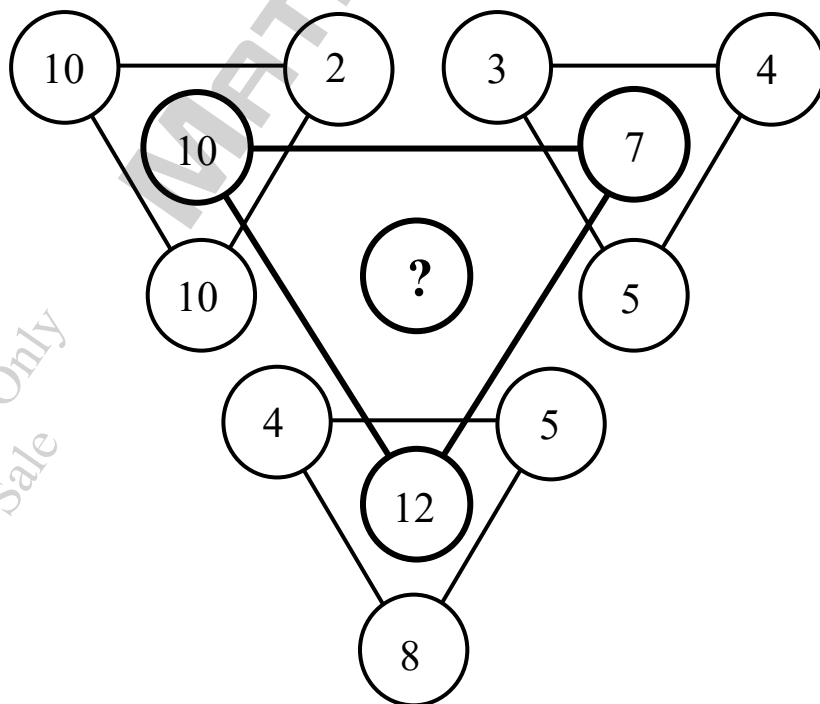
如果小妮只用 5 元、2 元、5 角和 2 角硬幣付了 25 元 3 角買一杯奶昔，她最少付多少枚硬幣？

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- 36) A souvenir shop sells 3 types of boxed chocolates: packed in 48, 81 [4.5%] and 121. Danny plans to buy some boxes of chocolates and shares them with his 6 friends equally without any leftover. At least how many chocolates should he buy in total?

紀念品店售賣三款盒裝朱古力，分別是 48 粒裝、81 粒裝和 121 粒裝。宏軒打算買數盒朱古力，並和他的 6 個朋友平分朱古力而沒有餘下。他最少需要買多少粒朱古力？

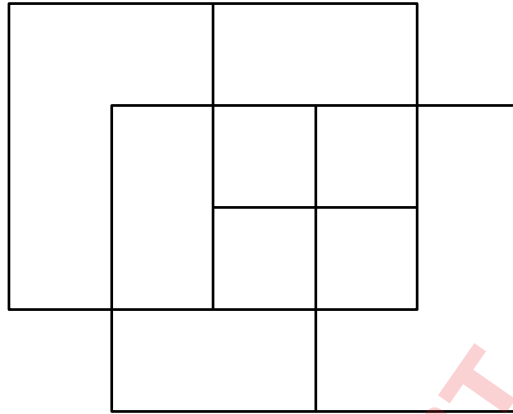
- 37) Find the missing number. [4.6%]
找出缺掉的數字。



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38) In the figure below, how many rectangles are there? [4.7%]

下圖共有多少個長方形？

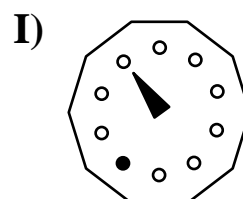
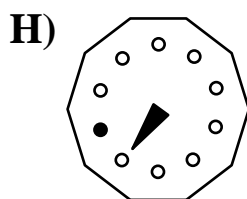
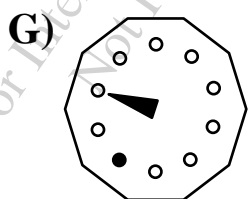
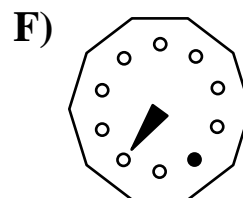
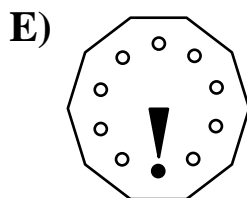
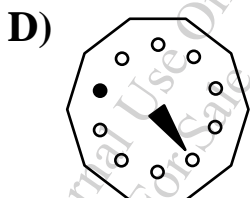
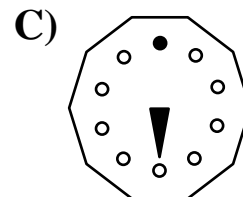
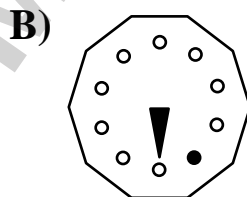
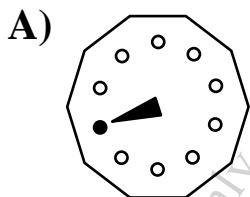
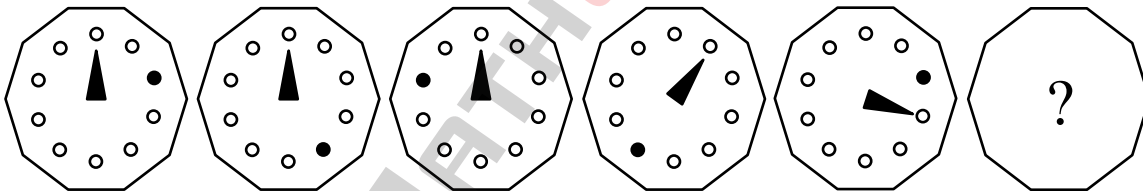


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39) Find the missing figure.

[4.8%]

找出缺掉的圖案。



- 40) N is a 3-digit number. When N is added to 455, carrying occurs only once or twice. How many possible values of N are there? [4.9%]

N 是一個三位數，與 455 相加時只有一次或兩次進位。 N 有多少個可能值？

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REG NO		P2
NAME		
GRADE		
SEAT		

ANSWER SHEET

IDCHECK

ABSENT

ANSWER		ANSWER		ANSWER		ANSWER	
1	16	11	778	21	134元(0角) / \$134(.00) / 134 dollars	31	487
2	63	12	445	22	191	32	148
3	6	13	500	23	49	33	5
4	8	14	51	24	pentagonal / 五角	34	174
5	396	15	94	25	7	35	11
6	558	16	C) obtuse angle 鈍角	26	C) west 西方	36	210
7	1301	17	5	27	549	37	58
8	44	18	496	28	38	38	21
9	532	19	17 th July / 17/7 / 7月17日	29	1809	39	F
10	649	20	925	30	720	40	625

