


Mathematics

數學

Mock Paper 1

模擬試卷(一)

 作答策略

本卷標有的題目，在該頁尾提供速效作答策略。

考核範圍：上學期

題號	學習重點	範疇	題號	學習重點	範疇
1	倍數和因數(4上)	數	24	八個方向(4上)	圖形與空間
2	整除性(4上)		25	八個方向(4上)	
3	五位數(3上)		26	圖形分割和拼砌(4上)	
4	乘法(4上)		27	圖形分割和拼砌(4上)	
5	乘法(4上)		28	容量(3下)	度量
6	質數(4上)		29	象形圖(2下)	數據處理
7	公倍數和公因數(4上)		30	棒形圖(3下)	
8	除法(4上)		31(a)	八個方向(4上)	圖形與空間
9	公倍數和公因數(4上)		31(b)	乘法(4上)、質數(4上)	數
10	除法(4上)		31(c)	除法(4上)	
11	乘法(4上)		32(a)	乘法(4上)	
12	倍數和因數(4上)		32(b)	乘法(4上)	數據處理
13	倍數和因數(4上)		32(c)	乘法(4上)	
14	整除性(4上)		33(a)	棒形圖(4上)	
15	除法(4上)		33(b)	棒形圖(4上)	圖形與空間
16	乘法(4上)		33(c)	棒形圖(4上)	
17	倍數和因數(4上)		34(a)	四邊形(4上)	圖形與空間
18	立體圖形(2上)	34(b)	四邊形特性(4上)		
19	四個方向(2上)	35	乘加混合計算(3下)	數	
20	立體圖形(2上)	36(a)	除法(4上)		
21	四邊形(4上)	36(b)	乘減混合計算(3下)		
22	四邊形的特性(4上)	圖形與空間			
23	四邊形的特性(4上)				

Time allowed for the test: 50 minutes

測驗時間：50分鐘

Instructions:

1. This test contains two sections:
Section A: Questions 1-30
Section B: Questions 31-36
2. Answer ALL questions.
3. Write your answers on the answer sheet.
4. Write your name, class and class number on the answer sheet.
5. You may do your rough work in the blank space of this test booklet and there is no need to rub it out after the test.
6. The use of calculator is not allowed.

學生須知：

1. 本測驗卷共有兩部分：
甲部：第1至第30題
乙部：第31至第36題
2. 全部題目均須作答。
3. 把答案寫在答題紙上。
4. 在答題紙上填寫學生姓名、班別及學號。
5. 學生可利用本測驗卷的空白部分做算草，測驗完畢後無須將算草擦去。
6. 不准使用計算機。

Note:

Not all diagrams are drawn to scale.

注意：

部分附圖不依比例繪畫。

SECTION A (60 marks)

Choose the correct answer. You only need to write down the letter preceding the selected answer.

甲部 (60分)

選出正確的答案。學生只須填上所選答案前的英文字母。

1. Two of the numbers 4, 5, 8 are used to form the largest 2-digit number which is a multiple of 6. Each number should not be used repeatedly. What is the L.C.M. of that 2-digit number and 8?

- A. 48
- B. 96
- C. 168
- D. 224

1. 用4、5、8其中的兩個數組成一一個最大的兩位數，且該數是6的倍數，每個數字不可重複使用。該兩位數和8的L.C.M.是多少？

- A. 48
- B. 96
- C. 168
- D. 224

1

5

0

8

2. Use the above four number cards to form a 4-digit number which is divisible by 5. What is the smallest possible required number?

- A. 1058
- B. 1085
- C. 1508
- D. 8510

2. 用以上四張數字卡組成一一個能被5整除的四位數，這個數最小是什麼？

- A. 1058
- B. 1085
- C. 1508
- D. 8510

02 別除法：先剔除不能被5整除的數，再找出最小的數。

3. What is the least number to be added to 8417 to make it a 5-digit number?

- A. 1693
- B. 1683
- C. 1593
- D. 1583

3. 8417最少要加上多少才是一個五位數？

- A. 1693
- B. 1683
- C. 1593
- D. 1583

$$\begin{array}{r} \triangle \quad 7 \quad 3 \\ \times \quad 2 \quad \square \\ \hline \end{array}$$

4. Which of the following options can make the result of the above expression to be **smallest** and **odd**?

- A. $\triangle = 1, \square = 0$
- B. $\triangle = 1, \square = 1$
- C. $\triangle = 2, \square = 3$
- D. $\triangle = 2, \square = 0$

4. 下列哪一個選項能使以上算式得出一個最小的單數？

- A. $\triangle = 1, \square = 0$
- B. $\triangle = 1, \square = 1$
- C. $\triangle = 2, \square = 3$
- D. $\triangle = 2, \square = 0$

5. The restaurant uses 350mL of honey every day. How much honey did the restaurant use from 15th June to 2nd July?

- A. 6300mL
- B. 5950mL
- C. 5600mL
- D. 5250mL

5. 餐廳每天用去350mL蜂蜜。由6月15日至7月2日，餐廳用去蜂蜜多少？

- A. 6300mL
- B. 5950mL
- C. 5600mL
- D. 5250mL

◎3 逆向思考法：先找出所需的五位數，再用減法計算。

6. What is the smallest prime number between 50 and 100?

- A. 99
- B. 98
- C. 53
- D. 51

6. 在50至100之間，最小的質數是多少？

- A. 99
- B. 98
- C. 53
- D. 51

7. Which of the following sets of numbers has 18 as their H.C.F.?

- A. 1, 18
- B. 3, 6
- C. 18, 54
- D. 18, 60

7. 下列哪一組數的H.C.F.是18？

- A. 1、18
- B. 3、6
- C. 18、54
- D. 18、60

8. How many '14's are there in the number 98?

- A. 4
- B. 6
- C. 7
- D. 9

8. 在98這個數中包含多少個「14」？

- A. 4
- B. 6
- C. 7
- D. 9

9. What is the 50th common multiple of 6 and 9?

- A. 1800
- B. 900
- C. 180
- D. 90

9. 6和9的第50個公倍數是多少？

- A. 1800
- B. 900
- C. 180
- D. 90

10. There are 432 pears. If each box can hold a maximum of 22 pears, at least how many boxes are needed for holding all the pears?

- A. 18
- B. 19
- C. 20
- D. 21

10. 現有432個梨。若每一個箱子最多可容納22個梨，最少需要箱子多少個才可把所有梨裝好？

- A. 18
- B. 19
- C. 20
- D. 21

11. An orchestra will hold a concert in the hall. There will be an audience of 600 people. How should the organizer arrange the seats for all of them?

	<u>Number of Rows</u>	<u>Number of Seats per Row</u>
A.	31	18
B.	28	22
C.	21	28
D.	18	32

11. 某樂團將會在禮堂舉行一場音樂會，觀眾人數為600人，主辦單位應怎樣擺放座位，才可容納所有觀眾？

	<u>行數</u>	<u>每行座位數目</u>
A.	31	18
B.	28	22
C.	21	28
D.	18	32

12. All factors of H are 1, 3, 41 and H . Which of the following is a multiple of H ?

- A. 369
- B. 242
- C. 82
- D. 44

12. H 的所有因數是1、3、41和 H 。以下哪一個是 H 的倍數？

- A. 369
- B. 242
- C. 82
- D. 44

◎ 110 別除法：先剔除不需要計算的選項。

13. If $P \times Q = 160$, which of the following is **not correct**?
- A. 320 must be a common multiple of P and Q .
 - B. 160 is a multiple of Q .
 - C. P is a factor of 160.
 - D. 160 must be the L.C.M. of P and Q .

13. 如果 $P \times Q = 160$ ，下列哪一項是**不正確**的？
- A. 320 一定是 P 和 Q 的公倍數。
 - B. 160 是 Q 的倍數。
 - C. P 是 160 的因數。
 - D. 160 一定是 P 和 Q 的 L.C.M.。

14. If M is divisible by 2 and N is divisible by 3, which of the following expressions must be divisible by 6?

- I. $M \times N$
 - II. $M + N$
 - III. $15 \times M$
- A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III

14. 如果 M 可被 2 整除， N 可被 3 整除，以下哪項必定能被 6 整除？

- I. $M \times N$
 - II. $M + N$
 - III. $15 \times M$
- A. 只有 I 及 II
 - B. 只有 I 及 III
 - C. 只有 II 及 III
 - D. I、II 及 III

15. 38 marbles weigh 190g altogether. What is the weight of each marble on average?

- A. 4g
- B. 5g
- C. 6g
- D. 7g

15. 38 粒波子共重 190g，平均每粒波子的重量是多少？

- A. 4g
- B. 5g
- C. 6g
- D. 7g

16. City M has three school nets. There are 25 schools in each school net. If there are 536 students in each school, how many students are there in the schools of City M?

- A. 13400
- B. 38000
- C. 38200
- D. 40200

16. M城設有三個校網，每個校網有25間學校。如果每間學校有536名學生，M城的學校共有學生多少名？

- A. 13400
- B. 38000
- C. 38200
- D. 40200

17. Jason is 8 years old now. Jordan's age is a factor of Jason's age. It is given that Jason and Jordan were not born in the same year. List all the possible ages of Jordan.

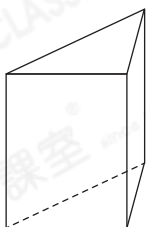
- A. 1, 2
- B. 2, 4
- C. 1, 2, 4
- D. 1, 2, 4, 8

17. 傑誠今年8歲，傑信的年齡剛好是傑誠的年齡的因數。已知傑誠和傑信不是同年出生的，列出傑信所有可能的年齡。

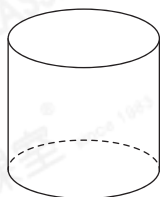
- A. 1、2
- B. 2、4
- C. 1、2、4
- D. 1、2、4、8

18. Which of the following solids has 4 faces?

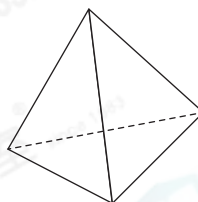
A.



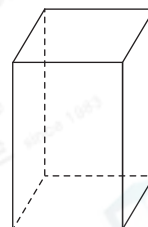
B.

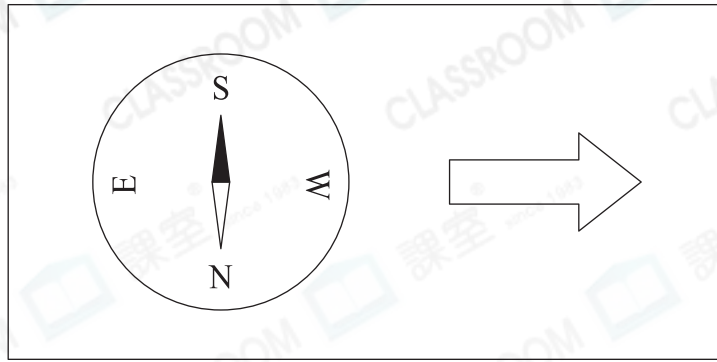


C.



D.





19. When Jack puts the compass on a paper, the black pointer of the compass is pointing north. What direction is the arrow pointing?

- A. east
- B. south
- C. west
- D. north

19. 志全把指南針放在紙上的時候，指南針黑色的指針指向北方，那麼箭咀是指向哪一方？

- A. 東
- B. 南
- C. 西
- D. 北

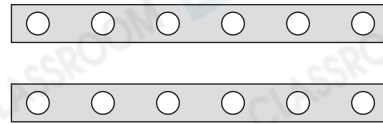
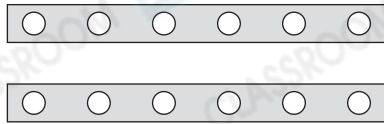


20. All the faces of a 3-D shape are shown as above. What kind of 3-D shape is it?

- A. triangular prism
- B. quadrilateral prism
- C. triangular pyramid
- D. quadrilateral pyramid

20. 以上是一個立體圖形的所有面，這個立體圖形是什麼？

- A. 三角柱
- B. 四角柱
- C. 三角錐
- D. 四角錐

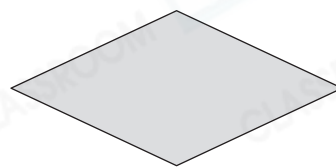


21. What kinds of quadrilaterals can be formed by the above geo-strips?

- I. square
 - II. rectangle
 - III. rhombus
 - IV. trapezium
- A. I and II only
 - B. I and III only
 - C. II and III only
 - D. II and IV only

21. 利用以上的幾何條可拼成下列哪些四邊形？

- I. 正方形
 - II. 長方形
 - III. 菱形
 - IV. 梯形
- A. 只有 I 及 II
 - B. 只有 I 及 III
 - C. 只有 II 及 III
 - D. 只有 II 及 IV



22. Which of the following is a common property of the above figures?

- A. two pairs of opposite sides are parallel
- B. four angles are equal
- C. four sides are equal
- D. there are four acute angles

22. 下列哪一項是上面兩個圖形的共同特性？

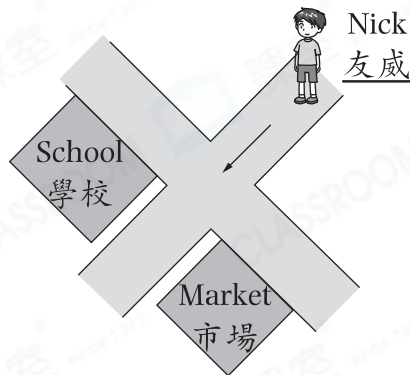
- A. 兩組對邊平行
- B. 四角相等
- C. 四邊長度相等
- D. 有四個銳角

23. Which of the following must be correct?

- I. The four sides of a rhombus are equal in length.
 - II. A rectangle has four right angles.
 - III. A trapezium has two pairs of opposite sides parallel.
- A. I only
B. II only
C. I and II only
D. II and III only

23. 以下哪項/些描述是必定正確的？

- I. 菱形的四條邊相等。
 - II. 長方形有四個直角。
 - III. 梯形的兩組對邊平行。
- A. 只有 I
B. 只有 II
C. 只有 I 及 II
D. 只有 II 及 III

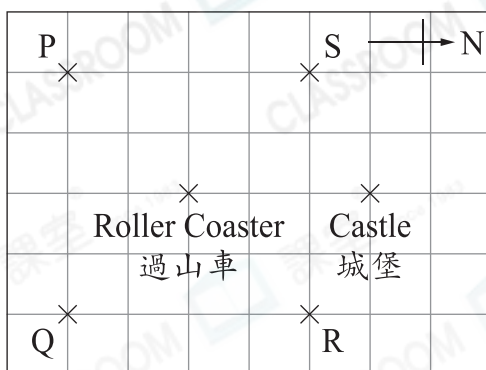


24. In the above figure, Nick was facing east and walking along the path. When he arrived at the junction, what direction should he go in order to reach the market?

- A. southeast
B. northwest
C. south
D. north

24. 上圖中，友威面向東方並沿小徑步行。當到達分岔路口時，他應向什麼方向走才可以到達市場？

- A. 東南
B. 西北
C. 南
D. 北

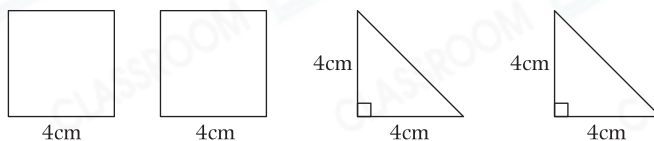


25. Roller Coaster was in southwest from Sunne. What was Sunne's location on the map?

- A. P
- B. Q
- C. R
- D. S

25. 過山車在晴芸的西南方。晴芸在地圖中的哪一個位置？

- A. P
- B. Q
- C. R
- D. S



26. Kyle has two pieces of square plastic board and two pieces of triangle plastic board as shown above. Which of the following shapes **cannot** be made by fitting these four pieces of plastic board together?

- A. triangle
- B. rectangle
- C. trapezium
- D. parallelogram

26. 樂樂有兩塊正方形及兩塊三角形膠板，如上圖所示。下列哪一種圖形 **不可** 由這四塊膠板拼合出來？

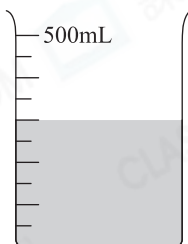
- A. 三角形
- B. 長方形
- C. 梯形
- D. 平行四邊形

27. Elaine drew a straight line on a piece of rectangular paper and divided it into a trapezium and a triangle. Which of the following must be correct?

- I. The triangle has a right angle.
 - II. The trapezium has two acute angles.
 - III. The trapezium has two right angles.
- A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III

27. 嘉玲在一張長方形畫紙上畫了一條直線，把它分為一個梯形和一個三角形。以下哪些描述是必定正確的？

- I. 這個三角形有一個直角。
 - II. 這個梯形有兩個銳角。
 - III. 這個梯形有兩個直角。
- A. 只有 I 及 II
 - B. 只有 I 及 III
 - C. 只有 II 及 III
 - D. I、II 及 III



28. There was 150mL of milk in a cup. After Doris poured the milk in the container above into the cup, how much milk are there in the cup?

- A. 500mL
- B. 450mL
- C. 300mL
- D. 150mL



28. 杯中原有 150mL 牛奶。詠怡將上圖容器內的牛奶倒入杯後，杯中現有牛奶多少？

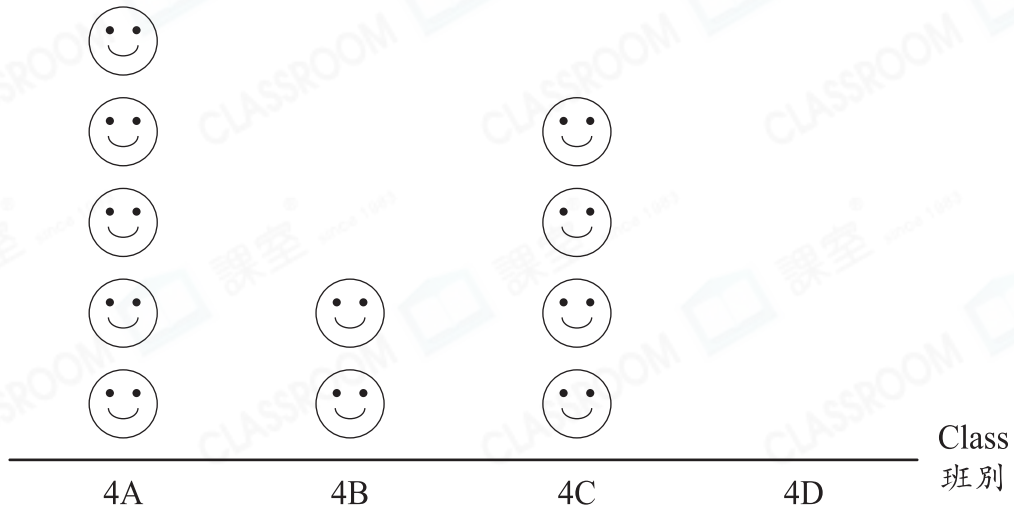
- A. 500mL
- B. 450mL
- C. 300mL
- D. 150mL

29. The teacher wanted to use the following graph to show the number of Primary 4 students who got full marks in the test, but she forgot to put down the number of Class 4D students who got full marks in the graph.

29. 老師嘗試用下圖來表示四年級各班測驗取得滿分的人數，但她忘了記錄4D班取得滿分的人數。

Number of Primary 4 Students who Got Full Marks in the Test
四年級各班測驗取得滿分的人數

Each  stands for 1 student
每個  代表1名學生



According to the correct record, a total of 12 students got full marks in the test in Primary 4. How many students in Class 4D got full marks?

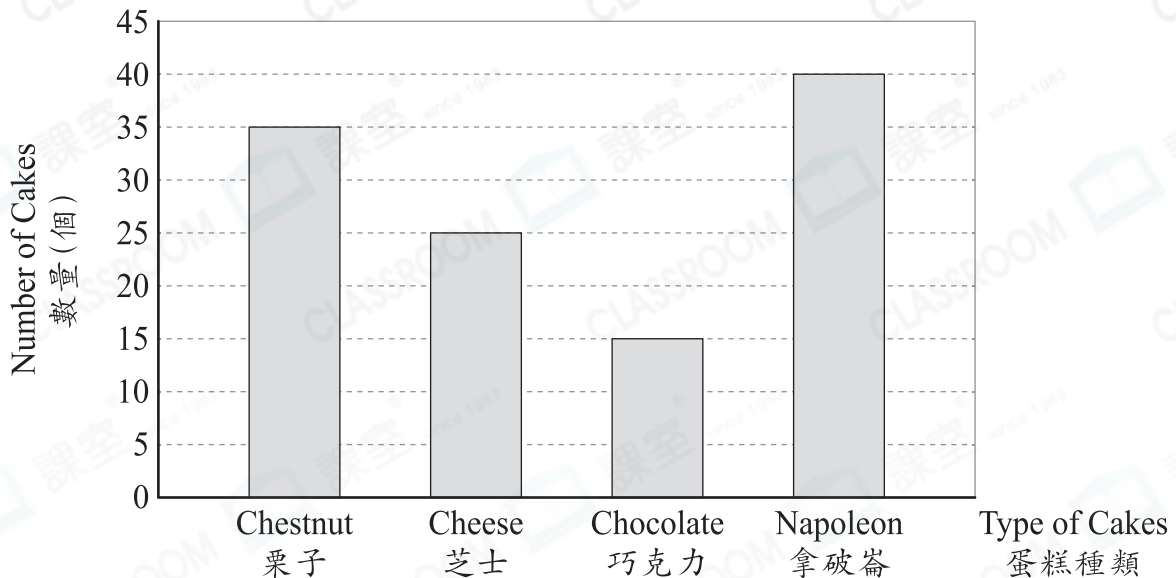
- A. 1
- B. 3
- C. 8
- D. 12

根據正確的人數記錄，四年級共有12名學生在測驗中取得滿分。那麼，4D班取得滿分的學生有多少名？

- A. 1
- B. 3
- C. 8
- D. 12

Sales of Cakes in Dream Cake Shop Yesterday

夢幻蛋糕店昨天各款蛋糕的銷售量



30. In Dream Cake Shop, the two top selling types of cakes of yesterday were sold at \$168 per cake, which were \$12 cheaper than the other two types. What was the total income of Dream Cake Shop yesterday?

- A. \$7200
- B. \$18660
- C. \$18840
- D. \$19800

30. 夢幻蛋糕店昨天售出最多的兩款蛋糕每個售價都是\$168，比其餘兩款便宜了\$12。夢幻蛋糕店昨天的總收入是多少？

- A. \$7200
- B. \$18660
- C. \$18840
- D. \$19800

End of Section A

甲部完

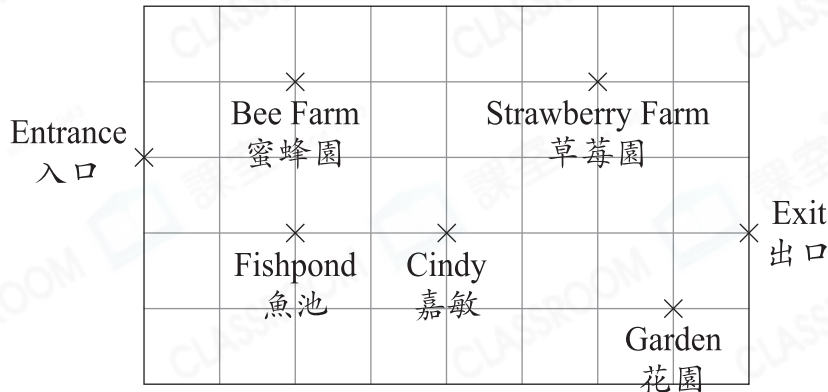
SECTION B (40 marks)

Working steps must be shown in answering questions in this section unless specified otherwise.

乙部 (40分)

除特別指明外，在回答本部問題時，須列出計算步驟。

31. The following is the floor plan of Happy Farm.



31. 下圖是快樂農莊的平面圖。

(a) The Exit was in the west of the Garden. Cindy wanted to go to the Fishpond. To get the shortest route, in which direction should she go? (Give the answer only) [2 marks]

(b) There are 11 kinds of fishes in the Fishpond and the number of each kind of fishes is exactly the largest prime number within 35. How many fish are there in the Fishpond? [4 marks]

(c) The ticket of the Bee Farm costs \$80 each. Cindy paid with a \$500 note. How many tickets can she buy at most? [4 marks]

(a) 花園的西方是出口。嘉敏想到魚池，她應往哪一個方向走，路程才是最短的？(只須寫出答案) [2分]

(b) 魚池裏有11種魚，每種魚的數量恰巧是35以內最大的質數。魚池裏共有魚多少條？ [4分]

(c) 蜜蜂園的門票每張售\$80，嘉敏付一張\$500的紙幣，最多可買門票多少張？ [4分]

32. In a mathematics game, students use the four number cards below to form an expression that gives the smallest answer. The expression should be formed by a two-digit number multiplying another two-digit number.

3 5 8 7

(a) Four students form the following expressions.

Betty 碧琪	Susan 子珊	Wilson 偉迅	Sam 宇森
38×57	37×85	75×38	78×35

What is the answer of the expression formed by Wilson?
(Give the answer only)

[2 marks]

(b) Among the four students, who forms an expression with the smallest answer? (Circle the answer on the answer sheet)

[2 marks]

(c) None of the above expressions gives the smallest answer. Write the expression which gives the smallest answer. (Give the expression only) [2 marks]

32. 在某數學遊戲中，學生利用下面四張數字卡，拼出一道答案是最小的兩位數乘兩位數的算式。

(a) 以下是四名學生所拼出的算式。

偉迅所拼出的算式答案是多少？(只須寫出答案) [2分]

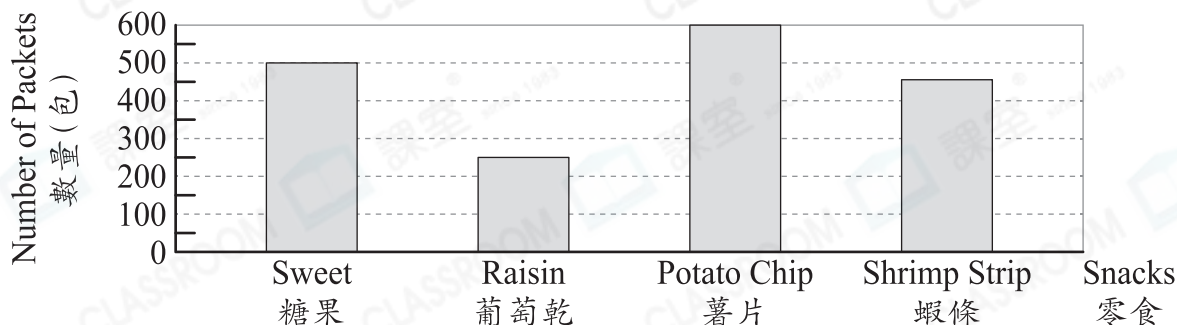
(b) 在這四名學生中，誰拼出的算式答案最小？(在答題紙上圈出答案) [2分]

☀ (c) 他們所列算式的答案都不是最小的，試寫出積是最小的算式。(只須寫出算式) [2分]

☀ Q32(c) 試誤法：除了題目中已有的算式，列寫其餘全部算式，並計算其答案。

Sales of Snacks in Shop N Last Month

N店上月各款零食的銷售量



33. (a) Comparing the sales of the snacks, what was the difference between the greatest and the smallest sales? (Give the answer only) [2 marks]

(b) The amount of shrimp strip purchased was 20 packets less than twice of the sales. What was the amount of shrimp strip purchased last month? (Give the answer only) [2 marks]

(c) The table below shows the price of the snacks.

Snack 零食	Sweet 糖果	Raisin 葡萄乾	Potato Chip 薯片	Shrimp Strip 蝦條
Price (per packet) 售價(每包)	\$15	\$32	\$16	\$9

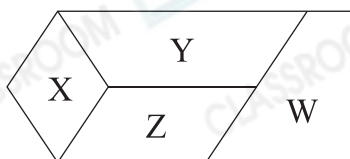
How much did Shop N get from selling snacks last month? [4 marks]

33. (a) 比較銷售量最高和最低的零食，銷售量相差多少包？(只須寫出答案) [2分]

(b) 上月蝦條的採購量比銷售量的2倍少20包，上月蝦條的採購量多少包？(只須寫出答案) [2分]

(c) 下表顯示各款零食的售價。

N店上月售出零食的總收入是多少？ [4分]



34. (a) In the above figure, what kind of quadrilateral is shape X?
(Give the answer only)[2 marks]

(b) Which of the above shapes have only one pair of opposite sides parallel? (Give the answer only) [2 marks]

34. (a) 上圖中，圖形X是什麼四邊形？(只須寫出答案) [2分]

(b) 上圖中，哪些圖形只有一組對邊平行？(只須寫出答案) [2分]

Price Table

價目表

Dictionary (per book) 字典(每本)	\$124
Notebook (per book) 筆記簿(每本)	\$12

35. Miss Lee wanted to buy some dictionaries and notebooks for 4 students. If each student would get 1 dictionary and 6 notebooks, according to the above table, how much should Miss Lee pay?
[4 marks]

35. 李老師打算買一些字典和筆記簿送給四名學生。若每名學生各得1本字典和6本筆記簿，根據上表，李老師應付款多少？ [4分]

Price list of printer 打印機價目表			
Model 型號	Marked Price 標價	12-month Instalment (Interest-Free) 12個月分期(免息)	Additional Function 附加功能
X	\$ [REDACTED]	Each month \$167 月供	scanning and copying 掃描及影印
Y	\$ [REDACTED]	Each month \$180 月供	scanning, copying and Wi-Fi printing 掃描、影印及無線 網路列印
Z	\$996	Each month \$ [REDACTED] 月供	Wi-Fi printing 無線網路列印

36. (a) Raymond wanted to buy a printer with Wi-Fi printing and the monthly instalment less than \$170. According to the above table, which model of printer should he buy? Explain his choice for each model. [4 marks]

(b) The department store held a promotion. Any customer purchasing with one-off payment could get a discount of \$188. If my father bought the Model Y printer with one-off payment, how much should he pay? [4 marks]

36. (a) 偉華想購買一台支援無線網路列印的打印機，並希望每月供款不超過\$170。根據上表，他應選購哪一型號的打印機？試就每型號解釋。
[4分]

(b) 百貨公司舉行優惠活動，一次過付款可減價\$188。爸爸購買型號Y的打印機，並一次過付款，他須付款多少？
[4分]

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One Mathematics Mock Paper 1

中一入學前數學科模擬試卷(一)

Answer Sheet

答題紙

Name of Student

學生姓名：_____ (中文)

Class

班別：_____ ()

Section A (60 marks) You only need to write down the letter preceding the selected answer.
(2 marks each)

甲部 (60分)

學生只須填上所選答案前的英文字母。(每題2分)

1.	11.	21.
2.	12.	22.
3.	13.	23.
4.	14.	24.
5.	15.	25.
6.	16.	26.
7.	17.	27.
8.	18.	28.
9.	19.	29.
10.	20.	30.

For Teacher's Use

供教師用

		Number 數	Shape & Space 圖形與空間	Measures 度量	Data Handling 數據處理
Section A 甲部	Item 題目	1-17	18-27	28	29-30
	Marks 分數				
Section B 乙部	31(a)				
	31(b)				
	31(c)				
	32(a)				
	32(b)				
	32(c)				
	33(a)				
	33(b)				
	33(c)				
	34(a)				
	34(b)				
	35				
36(a)					
36(b)					
(Sections A + B) Total (甲部及乙部) 合計					
Grand Total 總計					

Section B (40 marks) Working steps must be shown in answering questions in this section unless specified otherwise.

乙部 (40分) 除特別指明外，在回答本部問題時，須列出計算步驟。

	Marks 佔分	Marks 得分
31(a) She should go in the direction _____ . 她應往_____方向走。	2	<input type="text"/>
31(b)	4	<input type="text"/>
31(c)	4	<input type="text"/>
32(a) The answer of the expression formed by Wilson is _____ . 偉迅所拼出的算式答案是_____。	2	<input type="text"/>
32(b) * Betty / Susan / Wilson / Sam (*Circle the answer) * 碧琪 / 子珊 / 偉迅 / 宇森 (*圈出答案)	2	<input type="text"/>

Go On To Next Page

轉下頁續答

		Marks 佔分	Marks 得分
32(c)	The expression with the smallest answer is 積最小的算式是_____。	2	<input type="text"/>
33(a)	The difference was _____ packets. 相差_____包。	2	<input type="text"/>
33(b)	The amount purchased was _____ packets. 上月蝦條的採購量是_____包。	2	<input type="text"/>
33(c)		4	<input type="text"/>
34(a)	Figure X is a _____ . 圖形 X 是一個_____。	2	<input type="text"/>
34(b)	Figure _____ and Figure _____ have only one pair of opposite sides parallel. 圖形_____和圖形_____只有一組對邊平行。	2	<input type="text"/>

Go On To Next Page

轉下頁續答

Marks
估分

Marks
得分

35

4

36(a)

Because
因為

So he should buy Model _____ .
所以他應選購型號_____。

4

36(b)

4

END
完