

Mathematics

數學

Mock Paper 3

模擬試卷(三)

考核範圍：全學年

題號	學習重點	範疇	題號	學習重點	範疇
1	五位數、除法(3上)	數	24	周界(4下)	度量
2	小數的認識(4下)		25	面積(4下)	
3	乘法(4上)		26	面積、周界(4下)	
4	倍數和因數(4上)		27	面積(4下)	
5	除法(3上)		28	周界、面積(4下)	
6	倍數和因數(4上)		29	面積(4下)	
7	乘法和除法(4上)		30	棒形圖(4上)	數據處理
8	小數的認識(4下)		31(a)	整數四則混合計算(4下)	數
9	質數和合成數(4上)		31(b)	面積(4下)	度量
10	小數加減混合計算(4下)		32(a)	周界(4下)	圖形與空間
11	整數四則混合計算(4下)		32(b)	圖形分割(4上)	
12	整數四則混合計算(4下)		33(a)	小數減法(4下)	數
13	小數加減混合計算(4下)		33(b)	小數減法(4下)	
14	倍數和因數(4上)		34(a)	八個方向(4上)	圖形與空間
15	乘法(4上)		34(b)	同分母分數減法(4下)	數
16	小數減法(4下)		34(c)	乘法(4上)	
17	同分母分數加減混合計算(4下)		35(a)	除法(4上)	
18	八個方向(4上)		35(b)	整數四則混合計算(4下)	數據處理
19	四個方向(2上)		36(a)	棒形圖(4上)	
20	圖形拼砌(4上)		36(b)	棒形圖(4上)	
21	圖形分割(4上)		36(c)	棒形圖(4上)、整數四則混合計算(4下)	數
22	四邊形的特性(4上)				
23	四邊形(4上)		圖形與空間		

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. In the number 52316, how many times of the value of '6' is that of '3'?

- A. 2
- B. 4
- C. 50
- D. 100

1. 在52316這個數中，「3」的數值是「6」的多少倍？

- A. 2
- B. 4
- C. 50
- D. 100

2. Which of the following has the largest value?

- A. 0.66
- B. $\frac{58}{100}$
- C. $\frac{3}{50}$
- D. $\frac{7}{10}$

2. 下列哪一個數的值最大？

- A. 0.66
- B. $\frac{58}{100}$
- C. $\frac{3}{50}$
- D. $\frac{7}{10}$

3. If $18 \times \blacktriangle = 36 \times \star$, then $\blacktriangle = ?$

- A. 2
- B. 36
- C. $2 \times \star$
- D. $2 \div \star$

3. 如果 $18 \times \blacktriangle = 36 \times \star$ ，那麼 $\blacktriangle = ?$

- A. 2
- B. 36
- C. $2 \times \star$
- D. $2 \div \star$

4. What is the difference between the smallest and the greatest multiples of 18 between 80 and 190?

- A. 110
- B. 108
- C. 90
- D. 70

4. 在 80 和 190 之間，18 的最小和最大的倍數相差多少？

- A. 110
- B. 108
- C. 90
- D. 70

5. The price of a light bulb is \$48. A reduction of \$72 is given to the purchase of a box of 8 light bulbs. By how much is each light bulb cheaper on average?

- A. \$6
- B. \$9
- C. \$24
- D. \$40

5. 每個燈膽的售價是 \$48。現購買一盒共 8 個的燈膽，可獲減價 \$72，平均每個燈膽便宜了多少？

- A. \$6
- B. \$9
- C. \$24
- D. \$40

6. The first six multiples of V are: $V, 32, 48, 64, 80, 96$
Which of the following is not a factor of V ?

- A. 1
- B. 6
- C. 8
- D. 16

6. V 的首六個倍數是：
 $V, 32, 48, 64, 80, 96$
下列哪一個數 不是 V 的因數？

- A. 1
- B. 6
- C. 8
- D. 16

7. The playground of a primary school can hold 550 students. If there are 27 students in each class and there is enough space in the playground for all the students for assembly, how many students are there in the school at most?

- A. 530
- B. 540
- C. 550
- D. 588

7. 某小學操場可以容納550人。如果每班都有27人，操場又足夠讓全校學生一起集會，全校最多有學生多少人？

- A. 530
- B. 540
- C. 550
- D. 588

8. In the number 100.20, which place value of '0' can be deleted?

- A. units
- B. tenths
- C. hundredths
- D. thousandths

8. 在100.20這個數中，哪個位值的「0」可被刪除？

- A. 個位
- B. 十分位
- C. 百分位
- D. 千分位

9. What is the result of multiplying the smallest 2-digit composite number and the largest 2-digit prime number?

- A. 1188
- B. 990
- C. 970
- D. 910

9. 最小的兩位合成數與最大的兩位質數相乘的結果是多少？

- A. 1188
- B. 990
- C. 970
- D. 910

10. Bottle X contained 1.2L of water originally. Then, Winnie pours 0.82L of water into Bottle X. If Bottle Y contains 2.3L of water, what is the difference between the amounts of water in the two bottles?

- A. 0.28L
- B. 0.38L
- C. 1.1L
- D. 1.48L

10. 瓶X內原有1.2L水，溫妮再把0.82L水倒入瓶X。如果瓶Y內有2.3L水，這兩個瓶子內的水相差多少？

- A. 0.28L
- B. 0.38L
- C. 1.1L
- D. 1.48L

Wei Kee Bakery

偉奇餅家

Almond Cakes (each box)

杏仁餅

\$56

Buy one box and get one extra pack of fruit candy

每購買一盒，多送一包果汁糖

11. Customers can get one pack of fruit candy by every spending of \$80 in Wei Kee Bakery. Gordon bought 6 boxes of almond cakes, how many packs of fruit candy did he get altogether?

- A. 4
- B. 7
- C. 10
- D. 11

11. 在偉奇餅家，顧客每消費滿\$80可獲得果汁糖一包。國輝買了6盒杏仁餅，他共得果汁糖多少包？

- A. 4
- B. 7
- C. 10
- D. 11

12. Amy has 28 \$2 and \$5 cash coupons altogether. Their total value is \$89. If Amy has 6 more \$2 cash coupons than \$5 cash coupons, how many \$2 cash coupons does she have?

- A. 7
- B. 11
- C. 17
- D. 22

12. 倩雯有 \$2 和 \$5 現金券共 28 張，它們的總值是 \$89。倩雯有的 \$2 現金券比 \$5 現金券多 6 張，她有 \$5 現金券多少張？

- A. 7
- B. 11
- C. 17
- D. 22

13. This morning my grandfather put a \$100 note into his wallet. Then he paid \$56.8 with cash in a convenience store. The remaining cash in his wallet was \$62.3. What was the amount in his wallet before he put the \$100 note into it this morning?

- A. \$8.1
- B. \$19.1
- C. \$37.7
- D. \$43.2

13. 早上，爺爺把一張 \$100 鈔票放入錢包，然後他在便利店以現金付款 \$56.8，他的錢包裏還餘下 \$62.3。爺爺的錢包在早上放入 \$100 前有款項多少？

- A. \$8.1
- B. \$19.1
- C. \$37.7
- D. \$43.2

14. Which of the following has only 1, 3 and 9 as their common factors?

- A. 4 and 18
- B. 18 and 25
- C. 18 and 36
- D. 18 and 45

14. 下列哪一組數的公因數只有 1、3 和 9？

- A. 4 和 18
- B. 18 和 25
- C. 18 和 36
- D. 18 和 45

15. The price of a towel is \$26. One extra free towel will be given when buying 4 towels. If a customer wants to buy 28 towels, how much should he pay at least?

- A. \$560
- B. \$598
- C. \$702
- D. \$728

15. 一條毛巾的售價是\$26。購買4條可額外獲贈一條。如果顧客只需要28條毛巾，他最少須付多少？

- A. \$560
- B. \$598
- C. \$702
- D. \$728

Type of Tarts 撻的類別	Egg Tart 蛋撻	Cheese Tart 芝士撻	Fruit Tart 鮮果撻
Price (each) 原價(每個)	\$6.50	\$12.90	\$8.80

16. Bob bought a cheese tart and a fruit tart. When he was paying the bill with a \$50 note, the cashier told him that the fruit tart was on sale and gave him \$32 change. How much was the fruit tart cheaper?

- A. \$2.7
- B. \$3.7
- C. \$5.1
- D. \$7.8

16. 明輝買一個芝士撻和一個鮮果撻，並以一張\$50鈔票付款。收銀員告訴他鮮果撻正以特價發售，因此找回\$32給他。鮮果撻的售價比原價便宜了多少？

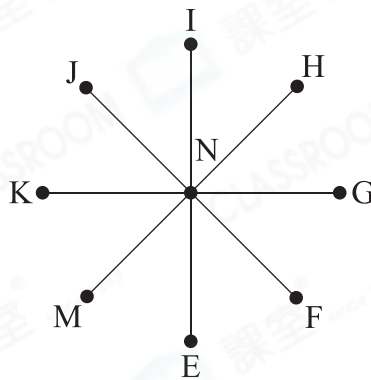
- A. \$2.7
- B. \$3.7
- C. \$5.1
- D. \$7.8

17. The airline regulates that each passenger should not carry luggage exceeding 5kg on board. Miss Lee has two pieces of luggage and their weights exceed the limit by $3\frac{7}{10}$ kg. If one of them weighs $4\frac{3}{10}$ kg, what is the weight of the other one?

- A. 4kg
- B. $4\frac{3}{10}$ kg
- C. $4\frac{2}{5}$ kg
- D. $4\frac{3}{5}$ kg

17. 航空公司規定每位乘客隨身行李不可超過5kg。李小姐的兩件行李共超重 $3\frac{7}{10}$ kg，若其中一件行李重 $4\frac{3}{10}$ kg，另一件重多少？

- A. 4kg
- B. $4\frac{3}{10}$ kg
- C. $4\frac{2}{5}$ kg
- D. $4\frac{3}{5}$ kg



18. If G is southwest of K, what is the direction of J from F?

- A. northwest
- B. west
- C. northeast
- D. east

18. 如果G在K的西南方，J在F的哪一方？

- A. 西北
- B. 西
- C. 東北
- D. 東

19. Sophia stood facing the sun at sunset. What direction did she face after she turned three right angles in an anticlockwise direction?

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

19. 日落時，思雯面向太陽站立，她以逆時針方向轉了三個直角後，面向哪一方？

- A. 東
- B. 南
- C. 西
- D. 北

20. Which of the following shapes **cannot** be formed by four isosceles right-angled triangles of the same size?

- A. rectangle
- B. parallelogram
- C. square
- D. equilateral triangle

20. 用四個大小相同的等腰直角三角形 **不可能** 拼砌出下列哪一種圖形？

- A. 長方形
- B. 平行四邊形
- C. 正方形
- D. 等邊三角形

21. Susie draws a straight line across a trapezium and cuts it into two shapes. If the trapezium has only one pair of adjacent sides equal and its four angles are not right angles. Which of the following groups of shapes can she get?

- A. triangle and rhombus
- B. triangle and square
- C. rhombus and parallelogram
- D. parallelogram and rectangle

21. 樂希在一個梯形上畫上一條直線，把它分割成兩個圖形。如果這個梯形只有一組鄰邊相等且四個角都不是直角，她可以得出以下哪一組圖形？

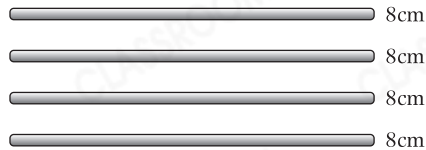
- A. 三角形和菱形
- B. 三角形和正方形
- C. 菱形和平行四邊形
- D. 平行四邊形和長方形

22. Which of the following is a common property of squares, parallelograms and rhombuses?

- A. there are four right angles
- B. four sides are equal in length
- C. two pairs of opposite sides are parallel
- D. only one pair of opposite sides are parallel

22. 正方形、平行四邊形和菱形有以下哪一種共同特性？

- A. 有四個直角
- B. 四邊長度相等
- C. 兩組對邊平行
- D. 只有一組對邊平行



23. If all of the above six plastic sticks are used together to form a quadrilateral, which of the following quadrilaterals can be formed?

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

23. 如果同時使用以上的六條膠棒去組成一個四邊形，可以組成以下哪個/些四邊形？

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

Figure 1
圖一

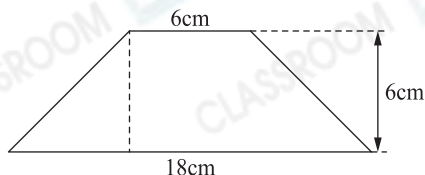
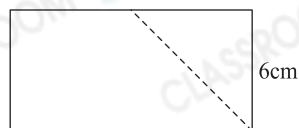


Figure 2
圖二

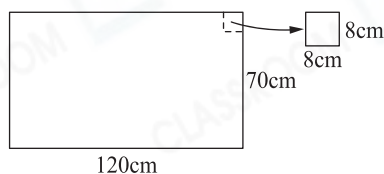


24. An isosceles right-angled triangle is cut along the dotted line by Jimmy from a piece of trapezium-shaped paper as shown in Figure 1. They then formed a new figure as shown in Figure 2. What is the perimeter of Figure 2?

- A. 48cm
- B. 42cm
- C. 36cm
- D. 18cm

24. 耀輝從圖一的梯形手工紙沿虛線剪出一個等腰直角三角形，然後拼合成一個新圖形，如圖二所示。圖二的周界是多少？

- A. 48cm
- B. 42cm
- C. 36cm
- D. 18cm

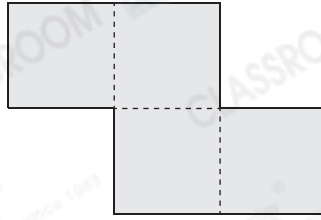


25. Fiona has a piece of cardboard of 120cm long and 70cm wide. To make bookmarks, she cuts out squares of side 8cm each. How many bookmarks can she cut out from the cardboard at most?

- A. 130
- B. 120
- C. 84
- D. 70

25. 玉英有卡紙一張，長120cm，闊70cm。她把卡紙剪成每張邊長8cm的正方形來製作書籤，她最多可剪出書籤多少張？

- A. 130
- B. 120
- C. 84
- D. 70

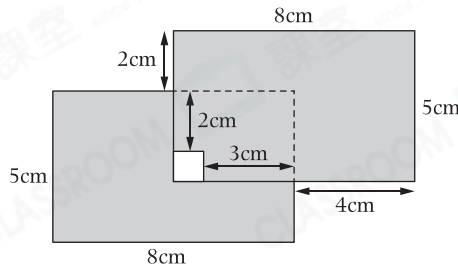


26. The above figure is formed by four squares of the same size. The area of the whole figure is 36cm^2 . What is its perimeter?

- A. 30cm
- B. 39cm
- C. 48cm
- D. 60cm

26. 上圖是由4個大小相同的正方形所組成，整個圖形的面積是 36cm^2 ，它的周界是多少？

- A. 30cm
- B. 39cm
- C. 48cm
- D. 60cm



27. Two rectangles are placed together. Parts of them overlapped and a white portion is cut away as shown in the above figure. What is the area of the shaded part?

- A. 91cm^2
- B. 79cm^2
- C. 68cm^2
- D. 67cm^2

27. 將兩個長方形放在一起，其中部分重疊，並剪去白色部分，如上圖所示。陰影部分的面積是多少？

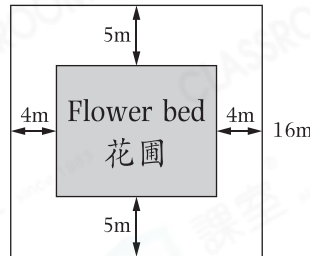
- A. 91cm^2
- B. 79cm^2
- C. 68cm^2
- D. 67cm^2

28. Tim has two pieces of wire of the same length. He uses one of the wires to form an equilateral triangle of side 12cm and the other one to form a square. What is the area of the square?

- A. 9cm^2
- B. 36cm^2
- C. 81cm^2
- D. 144cm^2

28. 健軍有兩條長度相同的鐵線。他用其中一條鐵線圍了一個邊長是12cm的等邊三角形，用另一條圍了一個正方形。該正方形的面積是多少？

- A. 9cm^2
- B. 36cm^2
- C. 81cm^2
- D. 144cm^2



29. A flower bed is built in the middle of a square lawn, as shown above. The cost of building the flower bed is \$300 per square metre. How much did it cost to build the flower bed?

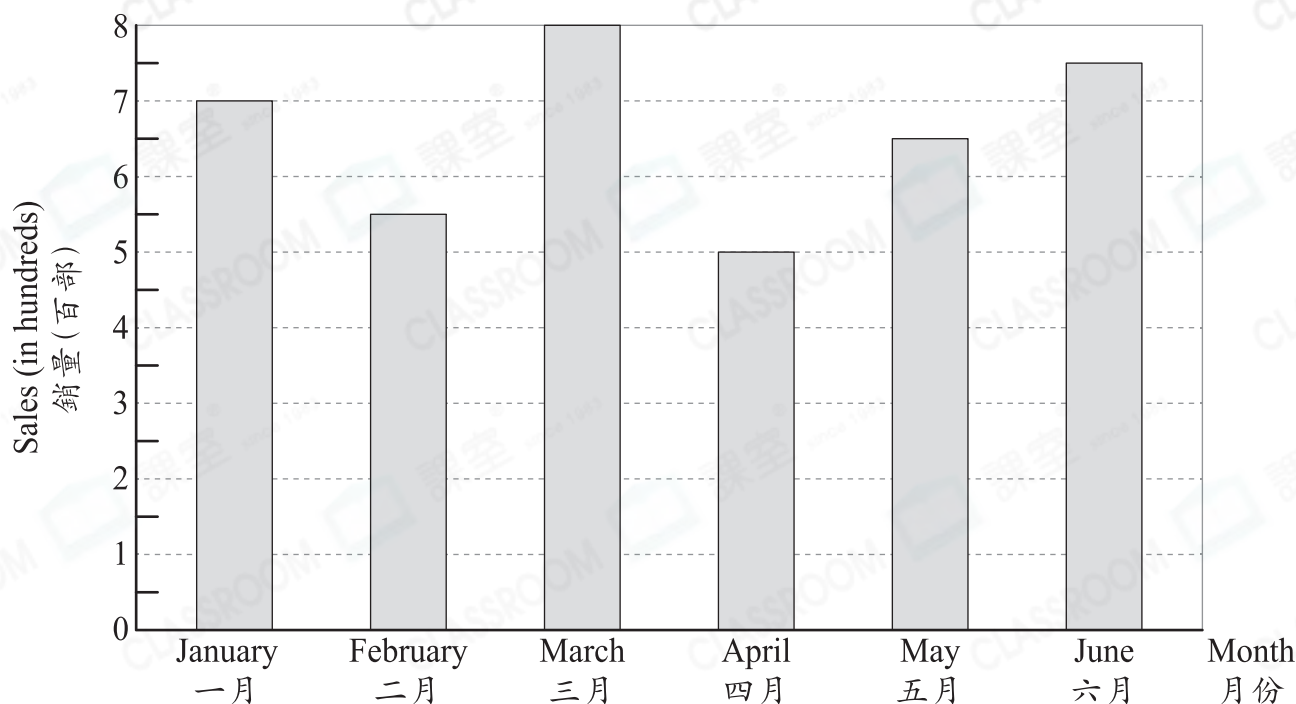
- A. \$76800
- B. \$39600
- C. \$14400
- D. \$7200

29. 在一塊正方形的草坪上修建一個花圃，如上圖所示。修建花圃的費用是每平方米\$300，修建這個花圃的費用是多少？

- A. \$76800
- B. \$39600
- C. \$14400
- D. \$7200

Sales of Computers in the First Half Year

上半年電腦的銷售量



30. According to the above graph, which of the following is correct?

- A. The sales in January were 100 computers more than that in May.
- B. The sales in April were half of that in March.
- C. The sales in three months were greater than 700 computers.
- D. The total sales in the first half year were 3950 computers.

30. 根據上圖，以下哪一項是正確的？

- A. 一月的銷售量比五月多 100 部。
- B. 四月的銷售量是三月的一半。
- C. 有 3 個月的銷量超過 700 部。
- D. 上半年的總銷售量是 3950 部。

End of Section A

甲部完

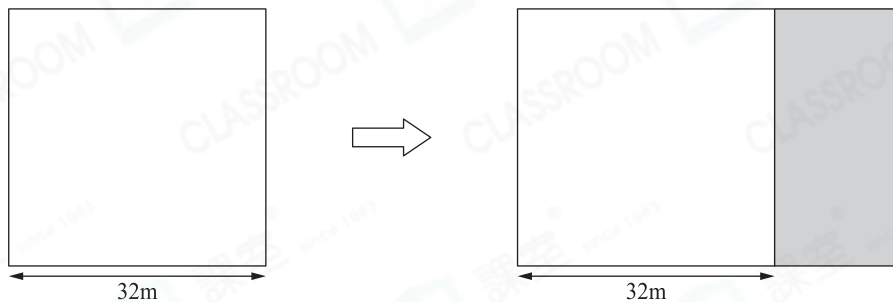
SECTION B (40 marks)

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。

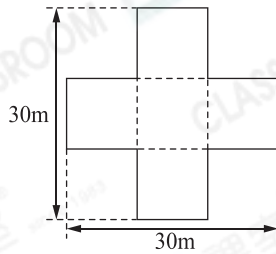
31. There is a square pond of side 32m in the Wetland Park. Later, one end of the pond was extended to half of the length of the original side. A rectangular pond could be formed, as shown below.



- (a) What was the length of the longer side of the pond after extension? (Give the answer only) [2 marks]
- (b) As compared to the original pond, what was the increase in its area after extension? [4 marks]

31. 濕地公園有一個正方形水池，邊長為32m。後來水池一端擴展原有邊長的一半長度，成為了長方形水池，如下圖所示。

- (a) 水池擴展後，較長一邊的長度是多少？(只須寫出答案) [2分]
- (b) 擴展後，水池的面積比原來的增加了多少？ [4分]



32. The above figure shows the lawn formed by 5 square lawns of the same size.

- (a) What is the perimeter of the whole lawn? [4 marks]
- (b) In the figure on the answer sheet, draw line segments to show how to divide the lawn into 4 parts of the same size. [2 marks]

32. 上圖的草地是由5幅大小相同的正方形草地組成。

- (a) 整幅草地的周界是多少？ [4分]
- (b) 在答題紙的圖形中加上線段，以表示如何把這幅草地分成4幅大小相同的草地。 [2分]

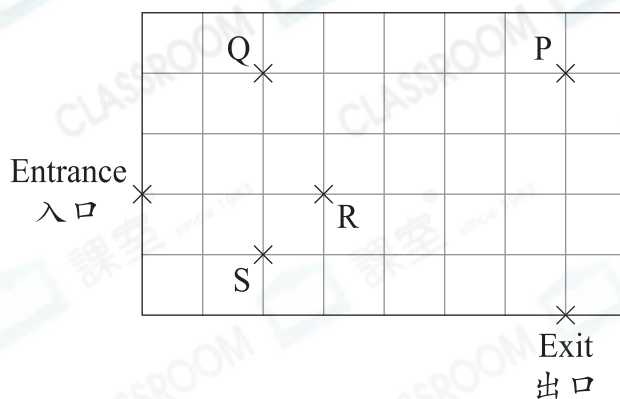
33. N is a one-digit number. When Jordan calculated $54.23 - N$, he mistakenly put N in the hundredths place (as shown in the expression below) and got the wrong answer 54.17.

$$\begin{array}{r} 54.23 \\ - \quad \quad N \\ \hline 54.17 \end{array}$$

- (a) Find the value of N . (Give the answer only) [2 marks]
- (b) What is the correct answer? (Give the answer only) [2 marks]

33. N 是一個一位數。佐倫在計算 $54.23 - N$ 時，誤把 N 與 54.23 的百分位數對齊相減(如下式所示)，得出 54.17 這個錯誤答案。

- (a) 求 N 的值。(只須寫出答案) [2分]
- (b) 正確的答案是多少？(只須寫出答案) [2分]



34. The above is the floor plan of a resort. Miss Chow ran a juice shop in area R. The juice shop sold 356 cups of juice altogether yesterday.

(a) Area Q is in the west of the Entrance. What is the direction of Miss Chow's juice shop from the Entrance? (Give the answer only) [2 marks]

(b) Among the juice sold, $\frac{1}{9}$ of the juice was apple juice and $\frac{4}{9}$ was pear juice. The rest was orange juice. What fraction of all the juice was orange juice? (Give the answer only)

[2 marks]

(c) The price of each cup of juice was \$32. How much did Miss Chow get from selling the juice yesterday? [4 marks]

34. 上圖是度假村的平面圖。周小姐經營的果汁店在區域R。昨天她的果汁店共售出356杯果汁。

(a) 區域Q在入口的西方。周小姐的果汁店在入口的哪一方？(只須寫出答案) [2分]

(b) 售出的果汁中，有 $\frac{1}{9}$ 是蘋果汁， $\frac{4}{9}$ 是雪梨汁，其餘的是橙汁，橙汁佔全部果汁的幾分之幾？(只須寫出答案)

[2分]

(c) 每杯果汁的售價是\$32。昨天周小姐售出果汁的收入是多少？ [4分]

Sunshine Supermarket

晴天超級市場

One stamp will be rewarded for any purchase of \$12. Members can enjoy the following offers:

購物滿 \$12 可獲贈一個印花，會員可享有以下優惠：

Offer 1 優惠 1	5 stamps will be rewarded for any purchase of \$50. 購物每滿 \$50 可獲贈 5 個印花。
Offer 2 優惠 2	10 stamps will be rewarded for any purchase of \$90. 購物每滿 \$90 可獲贈 10 個印花。

6 stamps are needed for redeeming a hanger for free.

6 個印花可免費換領一個衣架。

- 35. (a)** Tina was not a member of Sunshine Supermarket. She spent \$156. How many hangers could she redeem at most? How many stamps were left?

[4 marks]

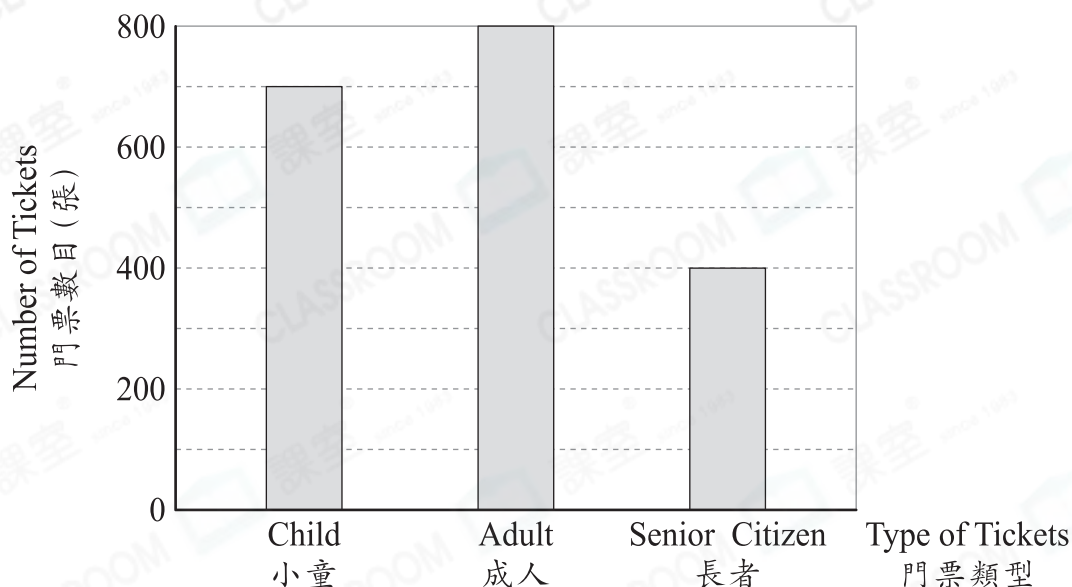
- (b)** If Betty is a member of Sunshine Supermarket and spends \$450, can she redeem 8 hangers? Explain. [4 marks]

- 35. (a)** 秀文不是晴天超級市場的會員，她購物用去 \$156，她最多可換領衣架多少個？餘下印花多少個？ [4分]

- (b)** 如果麗欣是晴天超級市場的會員，並購物用去 \$450，她能否換領8個衣架？試解釋。 [4分]

Admission Tickets Sold for Museum Yesterday

博物館昨天售出的門票



36. (a) Yesterday, the number of group tickets sold for the museum was 500. Draw the bar representing the number of group tickets on the answer sheet. [2 marks]

(b) What was the total number of child tickets and senior citizen tickets sold? (Give the answer only) [2 marks]

(c) The price of each adult ticket was \$10, which was twice of that of each child ticket. What was the difference between the incomes of the museum from selling the child tickets and adult tickets? [4 marks]

36. (a) 博物館昨天售出 500 張團體票。在答題紙上畫出代表團體票數目的棒。 [2分]

(b) 售出的小童票和長者票共有多少張？(只須寫出答案) [2分]

(c) 每張成人票的票價是 \$10，是每張小童票的 2 倍。博物館售出小童票的收入和成人票的相差多少？ [4分]

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One Mathematics Mock Paper 3

中一入學前數學科模擬試卷(三)

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.

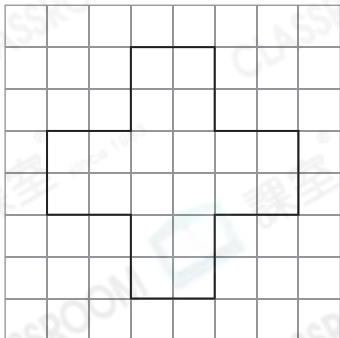
For Teacher's Use

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	18-23	24-29	30
	Marks 分數				
Section B 乙部	31(a)				
	31(b)				
	32(a)				
	32(b)				
	33(a)				
	33(b)				
	34(a)				
	34(b)				
	34(c)				
	35(a)				
	35(b)				
	36(a)				
	36(b)				
36(c)					
(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 估分	Marks 得分
<p>31(a) The length of the longer side was _____ m. 較長一邊的長度是_____ m。</p>	2	<input type="text"/>
<p>31(b)</p>	4	<input type="text"/>
<p>32(a)</p>	4	<input type="text"/>
<p>32(b)</p> 	2	<input type="text"/>

Go On To Next Page
轉下頁續答

		Marks 估分	Marks 得分
33(a)	The value of N is _____ . N 的值是 _____ 。	2	<input type="text"/>
33(b)	The correct answer is _____ . 正確答案是 _____ 。	2	<input type="text"/>
34(a)	Miss Chow's juice shop was _____ from the Entrance. 周小姐的果汁店在入口的 _____ 方。	2	<input type="text"/>
34(b)	The fraction was _____ . 橙汁佔全部果汁的 _____ 。	2	<input type="text"/>
34(c)		4	<input type="text"/>
35(a)		4	<input type="text"/>

Go On To Next Page

轉下頁續答

Marks
估分

Marks
得分

35(b)

Because
因為

* can / cannot (*Circle the answer)

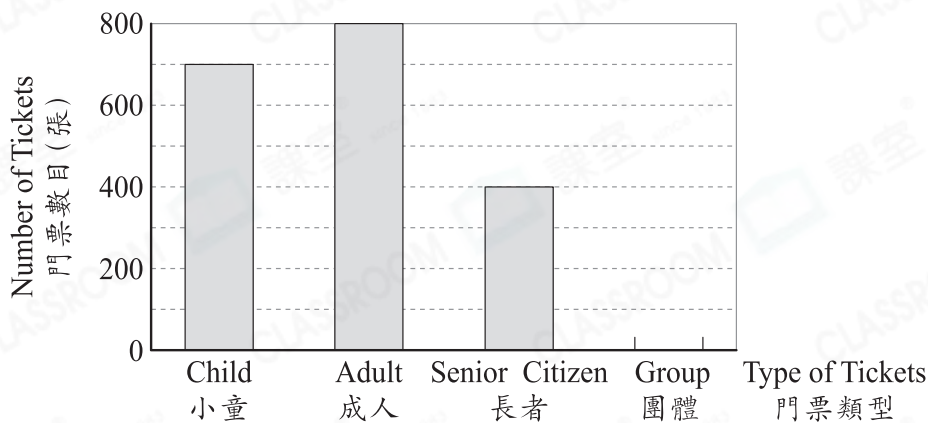
* 能 / 不能 (*圈出答案)

4

36(a)

Admission Tickets Sold for a Museum Yesterday

博物館昨天售出的門票



2

36(b)

The total number was _____.

共有 _____ 張。

2

36(c)

4

END
完