HONG KONG ATTAINMENT TEST
香港學科測驗
Mathematics 數學
Primary 4 四年級
Mock Paper of the Latest Question Types
最新題型增值卷

題號	學習重點	範疇
1	除法(4 上)	數
2	乘法(4 上)	
3	倍數和因數(4 上)	
4	公倍數和公因數(4 上)	
5	分數的認識(4 下)	
6	同分母分數加減混合計算(4 下)	
7	五位數(3 上)	
8	質數和合成數(4 上)	
9	小數減法(4 下)	
10	整除性(4 上)	
11	同分母分數大小比較(4 下)	
12	分數的認識(4 下)	
13	除加混合計算(4 下)	
14	四則混合計算(4 下)	
15	小數加法(4 下)	
16	四則混合計算(4 下)	
17	八個方向(4 上)	圖形與空間
18	四邊形(4 上)	
19	圖形的分割(4 上)	
20	三角形三邊的關係(3 下)	
21	圖形的拼砌(4 上)	
22	周界(4 下)、面積(4 下)	度量
23	面積(4 下)	
24	周界(4 下)、面積(4 下)	

題號	學習重點	範疇
25	周界(4 下)	度量
26	面積(4 下)	
27	周界(4 下)	
28	棒形圖(4 上)	數據處理
29	棒形圖(4 上)	
30	棒形圖(4 上)	
31(a)	面積(4 下)	度量
31(b)	除法(4 上)	數
32(a)	小數加法(4 下)	
32(b)	小數加減混合計算(4 下)	
33(a)	周界(4 下))	度量
33(b)	圖形的拼砌(4 上)	圖形與空間
34(a)	八個方向(4 上)	
34(b)	同分母分數減法(4 下)	數
34(c)	同分母分數加減混合計算(4 下)	
35(a)	四則混合計算(4 下)	
35(b)	乘減混合計算(3 下)	
36(a)	棒形圖(4 上)	數據處理
36(b)	棒形圖(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. You can use a pencil or a black/blue ball pen to answer the questions.

7. 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. 學生可以鉛筆或黑/藍色圓珠筆作答。

7. 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。

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1. The price of a bottle of coke is $24. A reduction of $72 is given to the purchase of a box of 12 bottles of coke. By how much is a bottle of coke cheaper on average?

    A. $2

    B. $6

    C. $16

    D. $48

1. 每瓶可樂的售價是$24。現購買一箱共 12 瓶的可樂，可獲減價 $72，平均每瓶可樂便宜了多少？

    A. $2

    B. $6

    C. $16

    D. $48

---

2. The price of a notebook is $32. One extra free notebook will be given when buying 5 notebooks. Miss Chan needs to buy 25 notebooks, how much should she pay at least?

    A. $640

    B. $672

    C. $768

    D. $800

2. 一本筆記簿的售價是$32，購買 5 本可額外獲贈一本。陳小姐需購買 25 本筆記簿，她最少須付多少？

    A. $640

    B. $672

    C. $768

    D. $800

---

3. All factors of *H* are:

      1, 3, 13, *H*

Which of the following **is not** a multiple of *H*?

    A. 52

    B. 78

    C. 117

    D. 156

3. *H* 的所有因數是：

      1、3、13、*H*

以下哪一個**不是** *H* 的倍數？

    A. 52

    B. 78

    C. 117

    D. 156

---

4. 6,8,9 are used to form the smallest 3-digit number which is a multiple of 8. Each number should not be used repeatedly. What is the H.C.F. of that 3-digit number and 96?

    A. 12

    B. 28

    C. 32

    D. 96

4. 用 6、8、9 組成一個最小的三位數，且該數是 8 的倍數，每個數字不可重複使用。該三位數和 96 的 H.C.F.是多少？

    A. 12

    B. 28

    C. 32

    D. 96
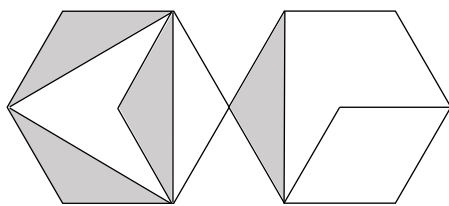
5. The above figure is formed by 2 regular hexagons of the same size. What fraction of the whole figure is shaded?

    A. $\dfrac{2}{3}$

    B. $\dfrac{1}{2}$

    C. $\dfrac{1}{3}$

    D. $\dfrac{3}{14}$

5. 上圖是由 2 個大小相同的正六邊形組成。陰影部分佔全圖的幾分之幾？

    A. $\dfrac{2}{3}$

    B. $\dfrac{1}{2}$

    C. $\dfrac{1}{3}$

    D. $\dfrac{3}{14}$

6. There are $23\dfrac{1}{8}$kg of apples in the fruit shop. The peaches are $5\dfrac{5}{8}$kg lighter than the apples. What is the total weight of apples and peaches in the fruit shop?

    A. $40\dfrac{5}{8}$kg

    B. $41\dfrac{5}{8}$kg

    C. $50\dfrac{3}{8}$kg

    D. $51\dfrac{7}{8}$kg

6. 水果店有蘋果 $23\dfrac{1}{8}$kg， 桃子比蘋果少 $5\dfrac{5}{8}$kg。水果店內共有蘋果和桃子多少？

    A. $40\dfrac{5}{8}$kg

    B. $41\dfrac{5}{8}$kg

    C. $50\dfrac{3}{8}$kg

    D. $51\dfrac{7}{8}$kg

7. What is the least number to be added to 7642 to make it a 5-digit odd number? A. 2358 B. 2359 C. 2459 D. 3468	**7.** 7642 最少要加上多少才是一個五位單數？ A. 2358 B. 2359 C. 2459 D. 3468
8. What is the result of multiplying the smallest composite number and the largest 2-digit prime number? A. 198 B. 291 C. 388 D. 396	**8.** 最小的合成數和最大的兩位質數相乘的結果是多少？ A. 198 B. 291 C. 388 D. 396
9. The weight of a baby is 3.25kg, and the nurse wrote it as 2.35kg by mistake. What is the difference in value between the two '3's? A. 0.27 B. 0.7 C. 1.3 D. 2.7	**9.** 嬰兒的體重是 3.25kg，護士錯寫成 2.35kg。兩個「3」的數值相差多少？ A. 0.27 B. 0.7 C. 1.3 D. 2.7

10. What is the sum of the smallest and the greatest numbers that are divisible by 3 between 3500 and 3800?

    A. 7299

    B. 7300

    C. 7301

    D. 7302

10. 在 3500 至 3800 之間，能被 3 整除的最小和最大的數之和是多少？

    A. 7299

    B. 7300

    C. 7301

    D. 7302

11. If $\dfrac{P}{9}$ is converted into mixed fraction, it is between $2\dfrac{4}{9}$ and $2\dfrac{8}{9}$. Which of the following is a possible value of P?

    A. 20

    B. 22

    C. 25

    D. 27

11. 若把 $\dfrac{P}{9}$ 化為帶分數，該帶分數介乎 $2\dfrac{4}{9}$ 和 $2\dfrac{8}{9}$ 之間。下列哪一個數可能是 P 的值？

    A. 20

    B. 22

    C. 25

    D. 27

12. If $\dfrac{\heartsuit}{9} = \dfrac{56}{\diamond}$ and $\dfrac{\heartsuit}{9}$ is an improper fraction, what numbers can $\heartsuit$ and $\diamond$ be?

    A. $\heartsuit = 4$, $\diamond = 126$

    B. $\heartsuit = 7$, $\diamond = 72$

    C. $\heartsuit = 14$, $\diamond = 32$

    D. $\heartsuit = 28$, $\diamond = 18$

12. 如果 $\dfrac{\heartsuit}{9} = \dfrac{56}{\diamond}$ ，且 $\dfrac{\heartsuit}{9}$ 是假分數，那麼 $\heartsuit$ 和 $\diamond$ 可能是什麼數字？

    A. $\heartsuit = 4$ ，$\diamond = 126$

    B. $\heartsuit = 7$ ，$\diamond = 72$

    C. $\heartsuit = 14$ ，$\diamond = 32$

    D. $\heartsuit = 28$ ，$\diamond = 18$

13. Jack has 29 $5 and $10 supermarket vouchers altogether. They are worth $190. If Jack has 11 fewer $10 vouchers than $5 vouchers, how many $5 vouchers does he have?

    A. 9

    B. 19

    C. 20

    D. 25

13. 杰克有$5 和$10 超級市場代用券共 29 張，它們總值$190。如果杰克的$10 代用券比$5 代用券少 11 張，他有$5 代用券多少張？

    A. 9

    B. 19

    C. 20

    D. 25

Sunny Stationery Shop
陽光文具店

Crayons (per box)
蠟筆(每盒) $48

Buy one box and get one extra postcard.
每購買一盒，多送一張明信片。

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14. Customers can get one postcard by every spending of $50 in Sunny Stationery Shop. Joseph bought 6 boxes of crayons, how many postcards did he get altogether?

    A. 5

    B. 6

    C. 11

    D. 12

14. 在陽光文具店，顧客每消費滿$50 可獲得一張明信片。志國買了 6 盒蠟筆，他共得明信片多少張？

    A. 5

    B. 6

    C. 11

    D. 12

15. Which of the following has the largest value?

    A. $5.5 + 5 + 0.05$

    B. $55 + 5.05 + 0.05$

    C. $55 + 5.05 + 0.5$

    D. $55 + 0.5 + 0.55$

15. 下列哪一項的值最大？

    A. $5.5 + 5 + 0.05$

    B. $55 + 5.05 + 0.05$

    C. $55 + 5.05 + 0.5$

    D. $55 + 0.5 + 0.55$

16. Amy packed some cookies into boxes of 15 each. After packing, there were 15 boxes of cookies and 10 cookies left. If she repacked them into boxes of 18 each, how many cookies would be left?

    A. 13

    B. 9

    C. 3

    D. 1

16. 婷雅把一些曲奇每 15 塊裝一盒，共可裝 15 盒，並餘下 10 塊。如果她改成每 18 塊裝一盒，把這些曲奇重新包裝後，餘下多少塊？

    A. 13

    B. 9

    C. 3

    D. 1

17. Car P is 10m to the south of Car Q. Car R is 10m to the east of Car P. In which direction is Car R from Car Q?

    A. southeast

    B. northeast

    C. southwest

    D. northwest

17. 汽車 P 在汽車 Q 的南方 10m，汽車 R 在汽車 P 的東方 10m，汽車 R 在汽車 Q 的哪一方？

    A. 東南

    B. 東北

    C. 西南

    D. 西北

| 4cm | 4cm | 8cm |
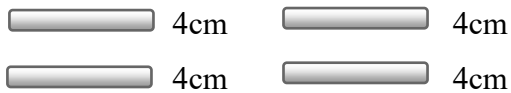
18. If all of the above five plastic sticks are used together to form a quadrilateral, which of the following quadrilaterals can be formed?

    I. rectangle
    II. parallelogram
    III. trapezium

    A. I and II only

    B. I and III only

    C. II and III only

    D. I, II and III

18. 如果同時使用以上的五條膠棒去組成一個四邊形，可以組成以下哪些四邊形？

    I. 長方形
    II. 平行四邊形
    III.梯形

    A. 只有 I 及 II

    B. 只有 I 及 III

    C. 只有 II 及 III

    D. I、II 及 III

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19. Judy draws a straight line across a rhombus and cuts it into two shapes. Which of the following groups of shapes can she get?

    A. parallelogram and trapezium

    B. square and triangle

    C. trapezium and triangle

    D. two rhombuses

19. 茱迪在一個菱形畫上一條直線，把它分割成兩個圖形。她可以得出以下哪組圖形？

    A. 平行四邊形和梯形

    B. 正方形和三角形

    C. 梯形和三角形

    D. 兩個菱形

6cm

6cm

6cm

12cm

15cm

20. Which of the following triangles can be formed by using three of the above wooden sticks?

   I. isosceles triangle

  II. equilateral triangle

  III. scalene triangle

  A. I only

  B. II and III only

  C. I and II only

  D. I, II and III

20. 用以上其中三枝木棒可以拼成以下哪個/些三角形？

   I. 等腰三角形

  II. 等邊三角形

  III. 不等邊三角形

  A. 只有 I

  B. 只有 II 和 III

  C. 只有 I 和 II

  D. I、II 和 III

5cm

5cm 5cm

5cm 5cm

5cm 5cm
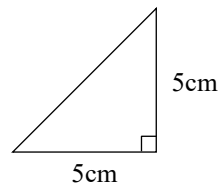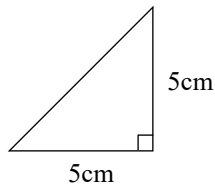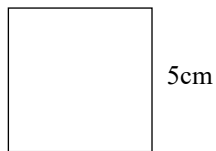
21. Which of the following figures **cannot** be made by fitting the above three pieces of plastic board together?

  A. trapezium

  B. rectangle

  C. parallelogram

  D. square

21. 下列哪一種圖形**不可**由以上三塊膠板拼合出來？

  A. 梯形

  B. 長方形

  C. 平行四邊形

  D. 正方形

22. The perimeter of a rectangle is 36cm. If its length is twice its width, what is the area of the rectangle?

    A. 36cm^2

    B. 72cm^2

    C. 162cm^2

    D. 288cm^2

22. 長方形的周界是 36cm。如果長度是闊度的 2 倍，這個長方形的面積是多少？

    A. 36cm^2

    B. 72cm^2

    C. 162cm^2

    D. 288cm^2
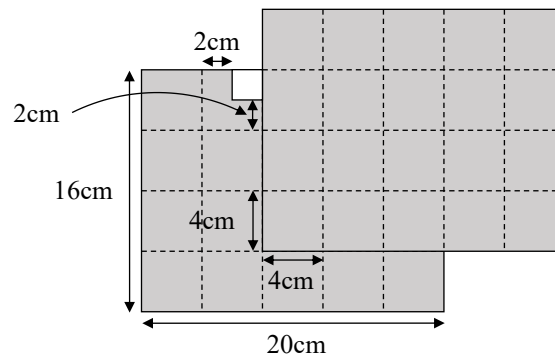
23. Two rectangles of the same size are placed together. Parts of them are overlapped and a white portion is cut away as shown in the above figure. What is the area of the shaded part?

    A. 636cm^2

    B. 496cm^2

    C. 492cm^2

    D. 316cm^2

23. 將兩個大小相同的長方形放在一起，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. 636cm^2

    B. 496cm^2

    C. 492cm^2

    D. 316cm^2
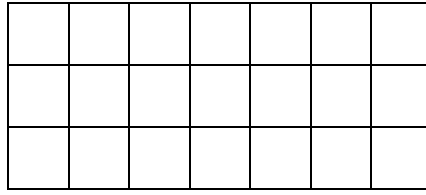
24. The above figure is formed by 21 squares of the same size. The area of one square is 36cm^2. What is the perimeter of the above figure?

    A. 60cm

    B. 120cm

    C. 252cm

    D. 504cm

24. 上圖是由 21 個大小相同的正方形組成，每個正方形的面積是 36cm^2。以上圖形的周界是多少？
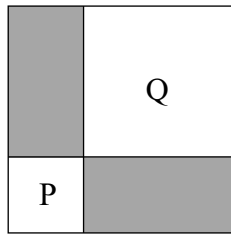
    A. 60cm

    B. 120cm

    C. 252cm

    D. 504cm
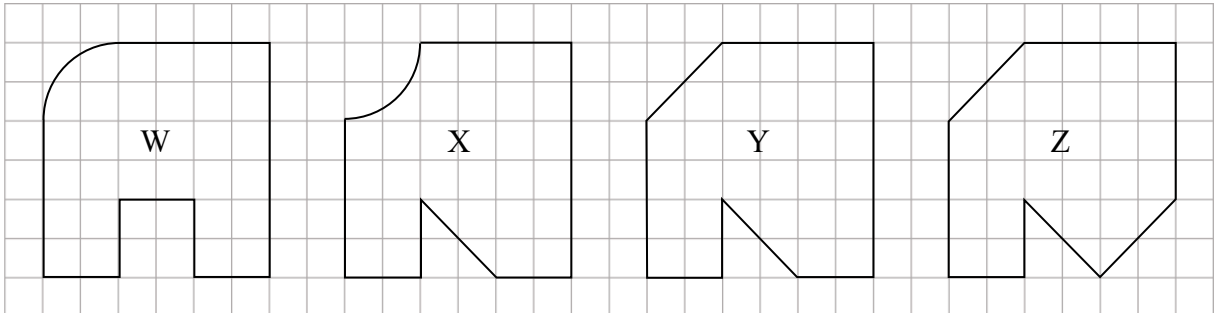
25. Which of the above figures has the shortest perimeter?

    A. W

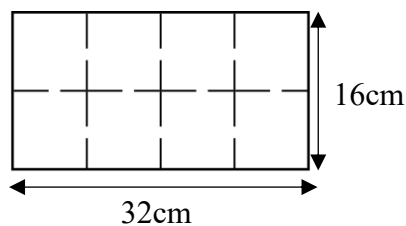   B. X

    C. Y

    D. Z

25. 以上哪個圖形的周界是最短的？

    A. W

    B. X

    C. Y

    D. Z

26. In the above figure, P and Q are squares. The areas of P and Q are 16cm^2 and 64cm^2 respectively. What is the total area of the shaded part?

    A. 64cm^2

    B. 80cm^2

    C. 128cm^2

    D. 144cm^2

26. 上圖中，P 和 Q 是正方形，它們的面積分別是 16cm^2 和 64cm^2。陰影部分的總面積是多少？

    A. 64cm^2

    B. 80cm^2

    C. 128cm^2

    D. 144cm^2

16cm

32cm

27. The above figure is a rectangle of 32cm long and 16cm wide. Jane cuts along the dotted lines and divides it into 8 squares of the same size. Then she puts 6 of the squares together to form a new figure, as shown below. What is the perimeter of the new figure?

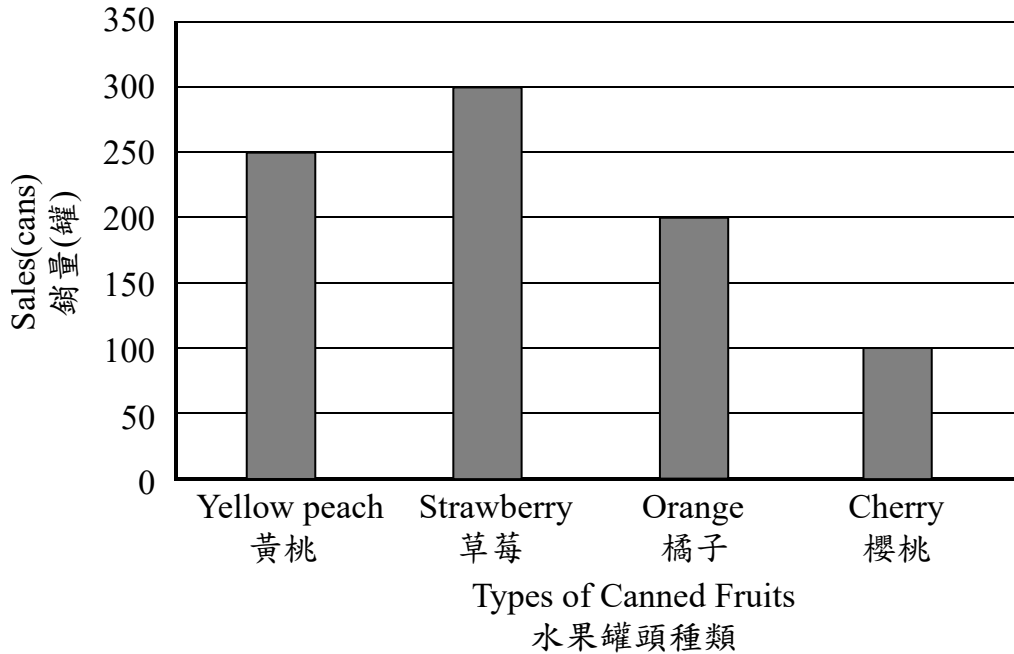**27.** 上圖是一個長 32cm，闊 16cm 的長方形。佳佳沿虛線把它分割成 8 個大小相同的正方形，並把其中 6 個正方形拼砌成一個新圖形，如下圖所示。這個新圖形的周界是多少？
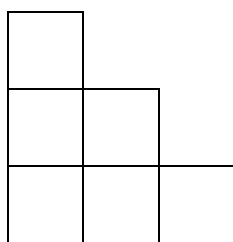
A. 48cm

B. 64cm

C. 84cm

D. 96cm

A. 48cm

B. 64cm

C. 84cm

D. 96cm

Sales of the Canned Fruits Yesterday
昨天水果罐頭的銷量

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

  A. The total sales of canned fruits were 900 cans.

  B. The sales of two types of canned fruits were more than 200 cans.

  C. The difference between the highest and lowest sales of canned fruits were 250 cans.

  D. The sales of the canned orange were half of that of the canned cherry.

28. 根據上圖，以下哪一項是正確的？

  A. 水果罐頭的總銷量是 900 罐。

  B. 有 2 種水果罐頭的銷量超過 200 罐。

  C. 銷量最高和最低的水果罐頭相差 250 罐。

  D. 橘子罐頭的銷量是櫻桃罐頭的一半。

The Favourite Subjects of Long River Primary School Students
長河小學學生最喜歡的科目
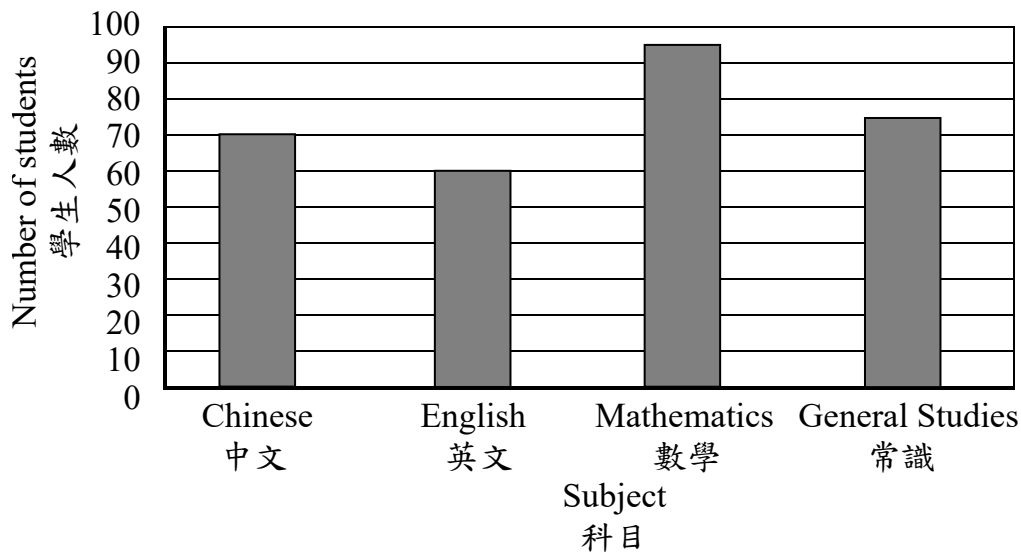
29. By the one-student-one-vote scheme, students of Long River Primary School voted for their favourite subjects and the result was given above. It was known that 8 students were absent from the voting and there were 156 boys in Long River Primary School, how many girls were there?
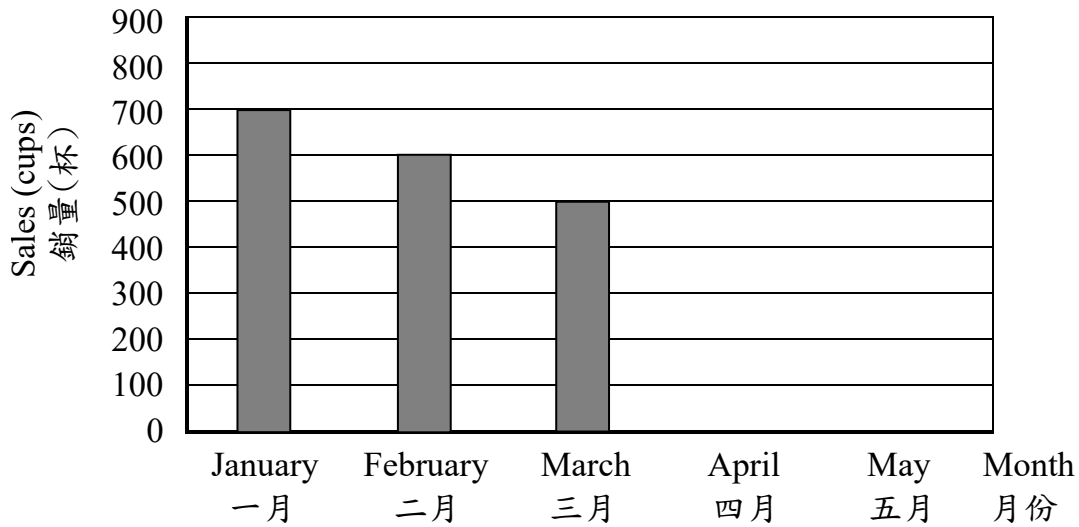
    A. 142

    B. 146

    C. 152

    D. 154

29. 長河小學的學生以一人一票的方式選出他們最喜歡的科目，結果如上。已知投票當日有 8 名學生缺席投票，並且長河小學共有 156 名男學生，有女學生多少名？

    A. 142

    B. 146

    C. 152

    D. 154

Sales of Juice in the Past Five Months
過去五個月果汁的銷量

30. The employee wanted to use the above graph to show the sales of juice in the past five months. However, he forgot to indicate the sales of juice in April and May in the graph. It is given that the total sales of juice in the past five months was 3000 cups, and the sales of juice in May is 3 times that in April, how many cups of juice were sold in May?

    A. 300

    B. 600

    C. 900

    D. 1200

30. 店員嘗試用上圖來表示過去五個月果汁的銷量，但他忘記標示四月和五月的果汁銷量。已知過去五個月果汁的總銷量是 3000 杯，而且五月果汁的銷量是四月的 3 倍，五月售出果汁多少杯？

    A. 300

    B. 600
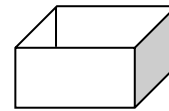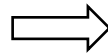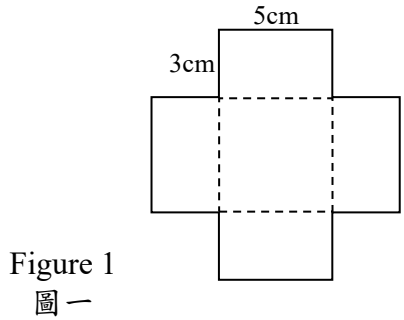
    C. 900

    D. 1200

End of Secion A
甲部完

SECTION B (40 marks)

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

Figure 1
圖一

Figure 2
圖二

31. The plastic sheet in Figure 1 is formed by one square and four rectangles of the same size and shape. Nancy used this plastic sheet to fold into the box in Figure 2.
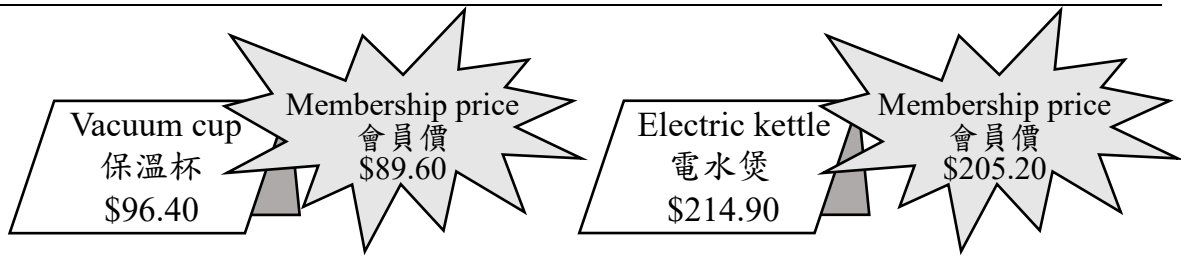
(a) In Figure 1, what is the area of the plastic sheet?

[4 marks]

(b) In Figure 2, the capacity of the box is 75mL. If Nancy uses it to hold 500mL of liquid soap, how many boxes can be fully filled at most?

[4 marks]

31. 圖一的膠片是由一個正方形及四個大小和形狀相同的長方形組合而成。敏儀利用該膠片摺成圖二的盒子。

(a) 圖一中的膠片的面積是多少？ [4 分]

(b) 圖二中這個盒子的容量是 75mL。如果敏儀用它盛載 500mL 洗手液，她最多可盛滿多少盒？

[4 分]

Vacuum cup
保溫杯
$96.40

Membership price
會員價
$89.60

Electric kettle
電水煲
$214.90

Membership price
會員價
$205.20

32. The above shows the prices of the vacuum cup and electric kettle in a department store. Holders of the membership card can enjoy the membership price, but it could not be used together with any other promotion offers. My father wanted to buy one vacuum cup and one electric kettle.

**(a)** If my father had the membership card, how much should he pay?　　[4 marks]

(b) The department store held a promotion and gave out vouchers of $20 each. A customer could use one voucher for any purchase up to $300 or more. Should my father use the voucher or the membership card in order to pay less? (Give the answer only)　　[2 marks]

32. 以上是百貨公司保溫杯和電水煲的售價。凡持會員卡的顧客可享有會員價，但會員卡不可與其他優惠同時使用。爸爸想買 1 個保溫杯和 1 個電水煲。

(a) 如果爸爸持有會員卡，他應付款多少？　[4 分]

**(b)** 百貨公司舉行促銷活動，並派發每張價值$20 的代用券，凡購物滿$300，即可使用代用券一張。付款時，爸爸應使用代用券還是會員卡才可取得較大的優惠？（只須寫出答案）　　　　　　　　[2 分]

33. Amy used 16 equilateral triangles of the same size to form the shapes in Figure 1 and Figure 2.
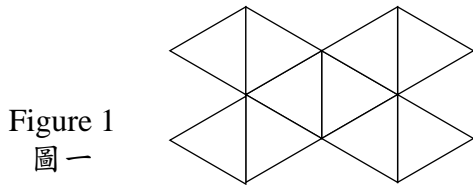
Figure 1
圖一

(a) If the perimeter of Figure 2 is 24cm shorter than that of Figure 1, what is the perimeter of Figure 2? (Give the answer only) [2 marks]
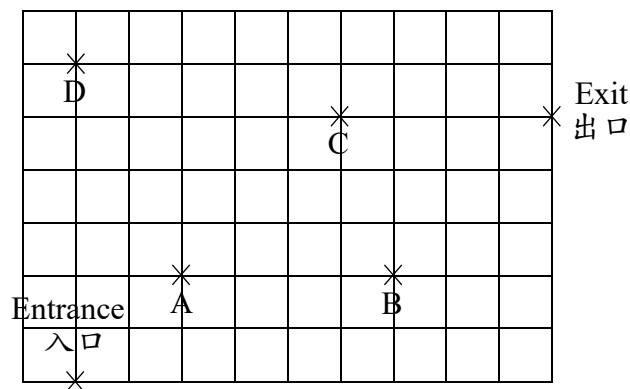
(b) If the Figure 2 is changed into a quadrilateral, what kind of quadrilateral should be obtained? (Give the answer only) [2 marks]

33. 夢珊用 16 個大小相同的等邊三角形組成圖一及圖二的形狀。

Figure 2
圖二
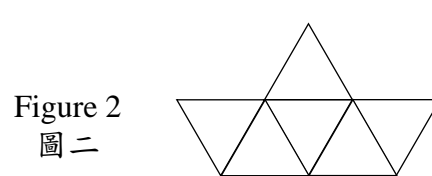
(a) 如果圖二的周界比圖一的周界短 24 cm，圖二的周界是多少？(只須寫出答案) [2 分]

(b) 如果把圖二改拼成一個四邊形，可以得到哪種四邊形？(只須寫出答案) [2 分]

Exit
出口

Entrance
入口

34. The above is the floor plan of the food carnival. Miss Leung ran a snack shop in the area B.

34. 上圖是美食嘉年華的平面圖。梁小姐經營的零食店在區域 B。

34. (a) Area C is in the south of the Exit. What is the direction of Miss Leung's snack shop from the Exit? (Give the answer only) [2 marks]

(b) Miss Leung put 80kg of nuts in her snack shop for sale. There were $24\frac{5}{8}$kg of cashews and $33\frac{7}{8}$kg of pistachios. The rest were almonds. How many kilograms of almonds were there in Miss Leung's snack shop? [4 marks]

(c) During the food carnival, Miss Leung sold $54\frac{7}{10}$kg dried beef, $36\frac{9}{10}$kg dried pork and $77\frac{3}{10}$kg preserved fruit. What is the difference in weight between dried meat and preserved fruit sold? [4 marks]

34. (a) 區域 C 在出口的南方，梁小姐的零食店在出口的哪一方？(只須寫出答案) [2 分]

(b) 梁小姐在零食店擺放了 80kg 堅果出售，其中有 $24\frac{5}{8}$kg 腰果，$33\frac{7}{8}$kg 開心果，其餘的是杏仁。梁小姐的零食店有杏仁多少？ [4 分]

(c) 在美食嘉年華期間，梁小姐售出了 $54\frac{7}{10}$kg 牛肉乾，$36\frac{9}{10}$kg 豬肉乾和 $77\frac{3}{10}$kg 果脯。售出的肉乾和果脯的重量相差多少？ [4 分]

35. Mr Wong planed to have the lunch buffet with his wife and two sons. The special offers from Sunny Restaurant and Delicious Restaurant were as follows.

Sunny Restaurant
陽光餐廳

$228 each
Half price will be offered to the fourth person
每位**$228**
第四位可獲半價優惠

Delicious Restaurant
美味餐廳

$220 each
Each can get the reduce of $25 when using credit card for payment
每位**$220**
以信用卡付款，每位可減$25

(a) If Mr Wong's family had the lunch buffet in Sunny Restaurant, how much should the four of them pay in total? [4 marks]

(b) If Mr Wong's would pay by credit card , at which restaurant should they have the lunch buffet so as to pay less? (Give the answer only) [2 marks]

35. 黃先生計劃與妻子及兩位兒子去吃自助午餐。陽光餐廳和美味餐廳有以下優惠。

(a) 如果黃先生一家在陽光餐廳吃自助午餐，他們四人共須付多少？ [4 分]

(b) 如果黃先生將會以信用卡付費，他們應該在哪一間餐廳吃自助午餐才可付較少？（只須寫出答案） [2 分]

Sales of Umbrellas in a Convenience Store from January to May
便利店一月至五月雨傘的銷量
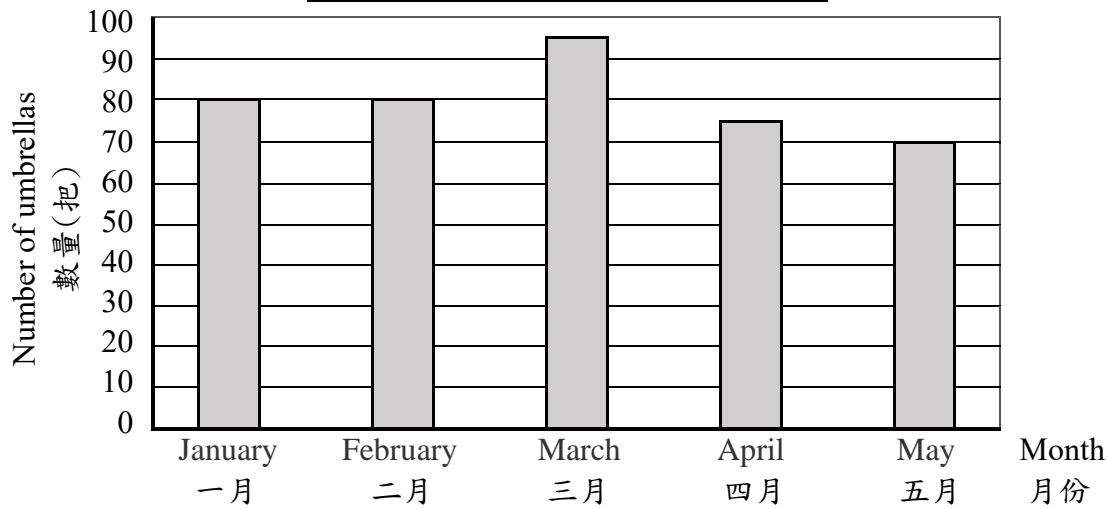
36. The above graph shows the sales of umbrellas in a convenience store from January to May.

(a) How many umbrellas were sold in the first quarter? (Give the answer only)　　[2 marks]

(b) The convenience store adjusted the price of each umbrella from $29 to $33 in May. The manager believed that the income by selling umbrellas in May would be decreased when compared with that in April. Do you agree with him? Explain.

[4 marks]

36. 上圖是便利店在一月至五月雨傘的銷量。

(a) 第一季共售出雨傘多少把？（只須寫出答案）　　[2 分]

(b) 便利店於五月將每把雨傘的售價由$29 調整為$33。經理認為五月售出雨傘的收入比四月少。你同意嗎？試解釋。　　[4 分]

End of Test Paper
測驗卷完