

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

題號	學習重點	範疇
25	面積(4 下)	度量
26	面積(4 下)、周界(4 下)	
27	周界(4 下)	
28	象形圖(2 下)	數據處理
29	棒形圖(4 上)	
30	棒形圖(4 上)	
31(a)	周界(4 下)	度量
31(b)	面積(4 下)	
32(a)	小數加法(4 下)	數
32(b)	小數加減混合計算(4 下)	
33(a)	四則混合計算(4 下)	
33(b)	乘減混合計算(3 下)	度量
34(a)	周界(4 下)	
34(b)	圖形分割和拼砌(4 上)	圖形與空間
35(a)	八個方向(4 上)	
35(b)	同分母分數減法(4 下)	數
35(c)	同分母分數加減混合計算 (4 下)	
36(a)	棒形圖(4 上)	
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。

1. What is the least number to be added to 7642 to make it a 5-digit odd number?

- A. 2358 The smallest 5-digit odd number is 10001.
B. 2359 The least number to be added is
 $10001 - 7642 = 2359$
C. 2459
D. 3468

1. 7642 最少要加上多少才是一個五位單數？

- A. 2358 最小的五位單數是 10001。
最少要加上
B. 2359 $10001 - 7642 = 2359$
C. 2459
D. 3468

Magazine Subscription Plan 雜誌訂購計劃	
Price per magazine 每本價錢 \$20	Total number of magazines subscribed 總訂購數量 15

2. There are 27 students in Class 4A. If all students subscribe magazines according to the above plan, how much should they pay in total?

- A.** \$8100 They should pay
 $20 \times 15 \times 27 = \8100
B. \$540
C. \$405
D. \$300

2. 4A 班有 27 名學生。如果全部學生根據以上計劃訂購雜誌，他們共須付多少？

- A.** \$8100 他們共須付
 $20 \times 15 \times 27 = \8100
B. \$540
C. \$405
D. \$300

3. Each box can hold 32 bottles of coke. A convenience store has 310 bottles of coke. How many boxes does it need at least in order to hold all the bottles of coke?

A. 11 $310 \div 32 = 9(\text{boxes}) \dots 22(\text{bottles})$
It needs 10 boxes at least.

B. 10

C. 9

D. 8

3. 每個箱子可放 32 瓶可樂。便利店有 310 瓶可樂，最少需要多少個箱子才可裝完所有可樂？

A. 11 $310 \div 32 = 9(\text{個}) \dots 22(\text{瓶})$
最少需要 10 個箱子。

B. 10

C. 9

D. 8

4. A company will distribute 4 notebooks to each of 164 employees. But it has only prepared 500 notebooks. How many more notebooks does the company need?

A. 1156 The company needs more
 $4 \times 164 - 500$
 $= 156(\text{notebooks})$

B. 656

C. 156

D. 127

4. 某公司將向 164 名員工每人派發 4 本筆記簿，但只準備了 500 本筆記簿。該公司還需要筆記簿多少本？

A. 1156 該公司還需要筆記簿
 $4 \times 164 - 500$
 $= 156(\text{本})$

B. 656

C. 156

D. 127

5. Find the H.C.F. of 56 and 84.

A. 4
$$\begin{array}{r|rr} 2 & 56 & 84 \\ \hline 2 & 28 & 42 \end{array}$$

B. 14
$$\begin{array}{r|rr} 7 & 14 & 21 \\ \hline & 2 & 3 \end{array}$$

C. 28 The H.C.F. of 56 and 84 is:
 $2 \times 2 \times 7 = 28$

D. 168

5. 求 56 和 84 的 H.C.F.。

A. 4
$$\begin{array}{r|rr} 2 & 56 & 84 \\ \hline 2 & 28 & 42 \end{array}$$

B. 14
$$\begin{array}{r|rr} 7 & 14 & 21 \\ \hline & 2 & 3 \end{array}$$

C. 28 56 和 84 的 H.C.F. 是：
 $2 \times 2 \times 7 = 28$


D. 168

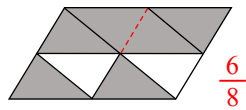
6. What is the result of adding up all the factors of 44?

- A.** 84 The factors of 44 are: 1, 2, 4, 11, 22, 44
 B. 83 The result of adding up all the factors is
 $1 + 2 + 4 + 11 + 22 + 44 = 84$
 C. 69
 D. 39


6. 把 44 的所有因數相加的結果是多少？

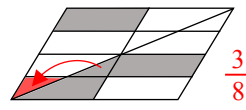
- A.** 84 44 的因數有：1，2，4，11，22，44
 B. 83 所有因數相加的結果是
 $1 + 2 + 4 + 11 + 22 + 44 = 84$
 C. 69
 D. 39

7. There are two parallelograms of the same size. If each  stands for 1, what is the value of the sum of the shaded parts?



- A. $\frac{3}{8}$ The value of the sum of the shaded parts is
 B. $\frac{1}{2}$ $\frac{6}{8} + \frac{3}{8} = 1\frac{1}{8}$
 C. $\frac{3}{4}$
D. $1\frac{1}{8}$

7. 下圖是兩個大小相同的平行四邊形。如果每個  代表 1，陰影部分相加後代表的值是多少？



- A. $\frac{3}{8}$ 陰影部分相加後代表的值是
 B. $\frac{1}{2}$ $\frac{6}{8} + \frac{3}{8} = 1\frac{1}{8}$
 C. $\frac{3}{4}$
D. $1\frac{1}{8}$

8. Which of the following has the largest value?

- A. $5.5 + 5 + 0.05$ A. 10.55
 B. $55 + 5.05 + 0.05$ B. 60.1
 C. $55 + 5.05 + 0.5$ C. 60.55
 D. $55 + 0.5 + 0.55$ D. 56.05

8. 下列哪一項的值最大？

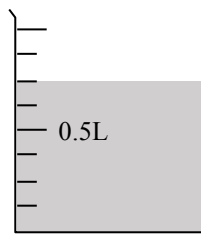
- A. $5.5 + 5 + 0.05$
 B. $55 + 5.05 + 0.05$
C. $55 + 5.05 + 0.5$
 D. $55 + 0.5 + 0.55$

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

- A. 198 The smallest composite number is 4.
B. 291 The largest 2-digit prime number is 97.
C. 388 $4 \times 97 = 388$
D. 396

9. 最小的合成數和最大的兩位質數相乘的結果是多少？

- A. 198 最小的合成數是 4。
B. 291 最大的兩位質數是 97。
C. 388 $4 \times 97 = 388$
D. 396



10. In the above figure, how much water is there in the container?

- A. 875mL $0.5L = 500mL$
B. 750mL There is
 $500 \div 4 \times 6$
 $= 750(mL)$
C. 625mL
D. 125mL

10. 在上圖，容器中有水多少？

- A. 875mL $0.5L = 500mL$
B. 750mL 容器中有水
 $500 \div 4 \times 6$
 $= 750(mL)$
C. 625mL
D. 125mL

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

- A. 7299 3501: $3+5+0+1=9$,
3501 is divisible by 3.
B. 7300 3799: $3+7+9+9=28$,
3799 is not divisible by 3.
C. 7301 3798: $3+7+9+8=27$,
3798 is divisible by 3.
D. 7302 $3501+3798=7299$

11. 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 3501: $3+5+0+1=9$,
3501 能被 3 整除。
B. 7300 3799: $3+7+9+9=28$,
3799 不能被 3 整除。
C. 7301 3798: $3+7+9+8=27$,
3798 能被 3 整除。
D. 7302 $3501+3798=7299$

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

- A. 20 $2\frac{4}{9} = \frac{22}{9}, 2\frac{8}{9} = \frac{26}{9}$
B. 22 $\frac{22}{9} < \frac{P}{9} < \frac{26}{9}$
C. 25 $22 < P < 26$
D. 27

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

- A. 20
B. 22
C. 25
D. 27

13. If $\frac{\heartsuit}{9} = \frac{56}{\spadesuit}$ and $\frac{\heartsuit}{9}$ is an improper fraction, what numbers can \heartsuit and \spadesuit be?

- A. $\heartsuit = 4, \spadesuit = 126$ A. $\frac{\heartsuit}{9} = \frac{4}{9}$, a proper fraction.
B. $\heartsuit = 7, \spadesuit = 72$ B. $\frac{\heartsuit}{9} = \frac{7}{9}$, a proper fraction.
C. $\heartsuit = 14, \spadesuit = 32$ C. $\frac{\heartsuit}{9} = \frac{14}{9} = \frac{56}{36}$
D. $\heartsuit = 28, \spadesuit = 18$ D. $\frac{\heartsuit}{9} = \frac{28}{9} = \frac{56}{18}$

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

- A. $\heartsuit = 4, \spadesuit = 126$ A. $\frac{\heartsuit}{9} = \frac{4}{9}$ ，真分數
B. $\heartsuit = 7, \spadesuit = 72$ B. $\frac{\heartsuit}{9} = \frac{7}{9}$ ，真分數
C. $\heartsuit = 14, \spadesuit = 32$ C. $\frac{\heartsuit}{9} = \frac{14}{9} = \frac{56}{36}$
D. $\heartsuit = 28, \spadesuit = 18$ D. $\frac{\heartsuit}{9} = \frac{28}{9} = \frac{56}{18}$

14. The weight of a baby is 3.25kg. A nurse wrote it as 2.35kg by mistake. What is the difference in value between the two '3's?

- A. 0.27 The difference in value between the two '3's is
 $3 - 0.3 = 2.7$
- B. 0.7
- C. 1.3
- D. 2.7**

14. 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 兩個「3」的數值相差
 $3 - 0.3 = 2.7$
- B. 0.7
- C. 1.3
- D. 2.7**

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

- A. $40\frac{5}{8}$ kg** The total weight of apples and peaches is
 $23\frac{1}{8} + 23\frac{1}{8} - 5\frac{5}{8} = 40\frac{5}{8}(\text{kg})$
- B. $41\frac{5}{8}$ kg
- C. $50\frac{3}{8}$ kg
- D. $51\frac{7}{8}$ kg

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

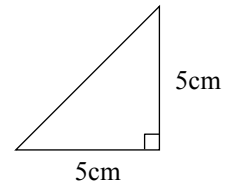
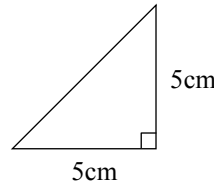
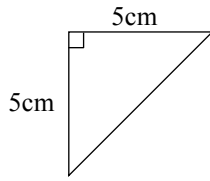
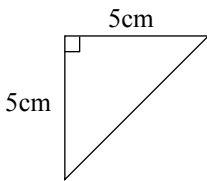
- A. $40\frac{5}{8}$ kg** 水果店內共有蘋果和桃子
 $23\frac{1}{8} + 23\frac{1}{8} - 5\frac{5}{8} = 40\frac{5}{8}(\text{kg})$
- B. $41\frac{5}{8}$ kg
- C. $50\frac{3}{8}$ kg
- D. $51\frac{7}{8}$ kg

16. 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
 \$5 vouchers } (29+11)
 B. 19
 \$10 vouchers 11 vouchers } vouchers
C. 20
 He has
 $(29+11) \div 2$
 $= 20(\text{vouchers})$
 D. 25

16. 傑銘有\$5和\$10超級市場代用券共29張，它們總值\$190。如果傑銘的\$10代用券比\$5代用券少11張，他有\$5代用券多少張？

- A. 9
 \$5代用券 } 共(29+11)張
 B. 19
 \$10代用券 11張 }
C. 20
 他有\$5代用券
 $(29+11) \div 2$
 $= 20(\text{張})$
 D. 25



17. Which of the following figures can be formed by using 4 isosceles right-angled triangles as shown in the above figure?

- I. trapezium
 II. rectangle
 III. parallelogram

- A. I and II only I.
- B. II and III only II.
- C. I and III only III.
- D. I, II and III**

17. 用四個等腰直角三角形，如上圖所示，可組成以下哪些圖形？

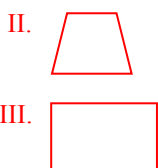
- I. 梯形
 II. 長方形
 III. 平行四邊形

- A. 只有 I 及 II
 B. 只有 II 及 III
 C. 只有 I 及 III
D. I、II 及 III

18. Which of the following descriptions about quadrilaterals must be correct?

- I. All squares are rhombuses.
- II. A trapezium must have right angles.
- III. There are four equal sides in a rectangle.

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



18. 下列哪項/些關於四邊形的描述必定正確？

- I. 所有正方形皆是菱形
- II. 梯形一定有直角
- III. 長方形的四邊相等

- A. 只有 I
- B. 只有 III
- C. 只有 I 及 III
- D. I、II 及 III



6cm



12cm



6cm



15cm

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

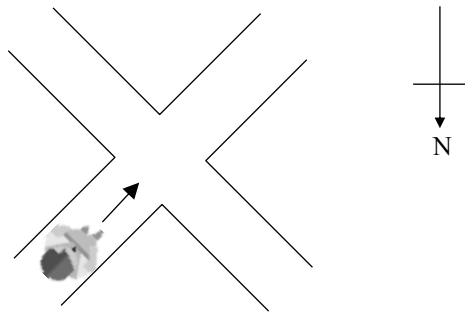
- A. equilateral triangle
- B. scalene triangle
- C. isosceles triangle
- D. isosceles right-angled triangle

- A. There has not three wooden sticks of the same length.
- B. $6 + 12 = 18$, $18 > 15$, a scalene triangle can be formed.
- C and D. $6 + 6 = 12$, $12 < 15$, an isosceles triangle can not be formed.

19. 用以上其中三枝木棒可能拼成以下哪種三角形？

- A. 等邊三角形
- B. 不等邊三角形
- C. 等腰三角形
- D. 等腰直角三角形

- A. 沒有三條長度相同的木棒。
- B. $6 + 12 = 18$, $18 > 15$, 可以組成不等邊三角形。
- C 和 D. $6 + 6 = 12$, $12 < 15$, 不可以組成等腰三角形。

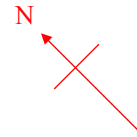
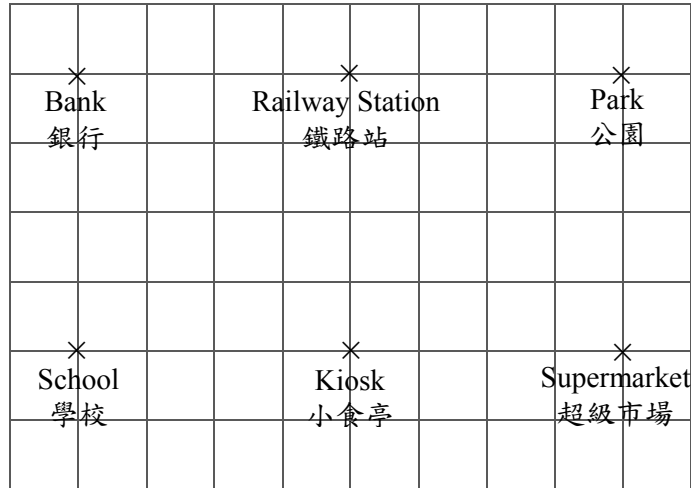


20. In the above figure, when Ken arrives at the junction, he will turn left and walk on. In which direction will he walk then?

- A. southeast
- B. southwest
- C. northeast
- D. northwest

20. 在上圖，當青鋒步行到分岔路口時，他會轉左繼續步行。他跟着向哪一方步行？

- A. 東南
- B. 西南
- C. 東北
- D. 西北



21. If the Railway Station is in the northeast of the Kiosk, what is in the west of the Railway station?

- A. Bank
- B. Park
- C. School**
- D. Supermarket

21. 如果鐵路站在小食亭的東北方。鐵路站的西方是什麼地方？

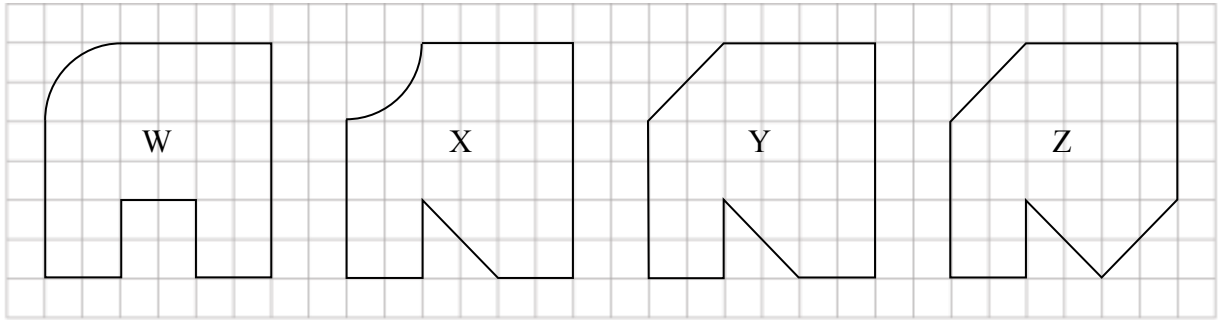
- A. 銀行
- B. 公園
- C. 學校**
- D. 超級市場

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

- A. 36cm^2
 - B. 72cm^2**
 - C. 162cm^2
 - D. 288cm^2
- The sum of the length and width of the rectangle is:
 $36 \div 2 = 18(\text{cm})$
 The length is twice the width, so the sum of the length and width is 3 times the width.
 The width of the rectangle is:
 $18 \div 3 = 6(\text{cm})$
 The area of the rectangle is:
 $(6 \times 2) \times 6 = 72(\text{cm}^2)$

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
- 長方形的長度與闊度之和是：
 $36 \div 2 = 18(\text{cm})$
 長度是闊度的 2 倍，所以長度和闊度之和是闊度的 3 倍。
 長方形的闊度是：
 $18 \div 3 = 6(\text{cm})$
 長方形的面積是：
 $(6 \times 2) \times 6 = 72(\text{cm}^2)$

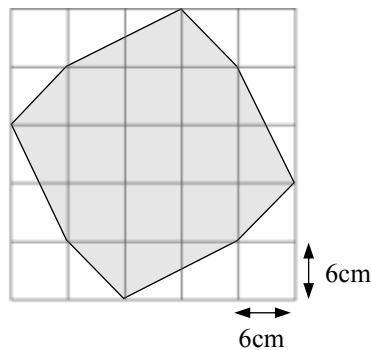


23. Which of the above figures has the shortest perimeter?

- A. W W > X > Y > Z
 B. X
 C. Y
D. Z

23. 以上哪個圖形的周界是最短的？

- A. W
 B. X
 C. Y
D. Z

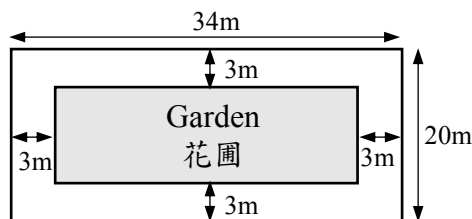


24. In the above figure, what is the area of the shaded part?

- A. 540cm²** The shaded part occupies 15 squares in total.
 B. 648cm² The area of the shaded part is $6 \times 6 \times 15 = 540 \text{ (cm}^2\text{)}$
 C. 756cm²
 D. 900cm²

24. 上圖中，陰影部分的面積是多少？

- A. 540cm²** 陰影部分共佔 15 個方格。陰影部分的面積是 $6 \times 6 \times 15 = 540 \text{ (cm}^2\text{)}$
 B. 648cm²
 C. 756cm²
 D. 900cm²

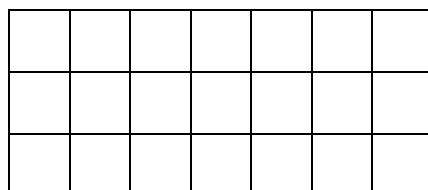


25. A rectangular garden is in the centre of a piece of rectangular land of length 34m and width 20m, as shown above. The weeding fee for the garden is \$22 per m^2 . What is the weeding fee in total?

- A. \$392 The garden is $(34 - 3 - 3)m$ long and $(20 - 3 - 3)m$ wide.
 B. \$6336 The total weeding fee is $22 \times (34 - 3 - 3) \times (20 - 3 - 3) = \8624
C. \$8624
 D. \$9680

25. 一幅長 34m，闊 20m 的長方形土地中間有一個長方形花園，如上圖所示。花園的除草費用是每平方米 \$22，除草的總費用是多少？

- A. \$392 花園長 $(34 - 3 - 3)m$ ，闊 $(20 - 3 - 3)m$ 。
 B. \$6336 除草的總費用是 $22 \times (34 - 3 - 3) \times (20 - 3 - 3) = \8624
C. \$8624
 D. \$9680

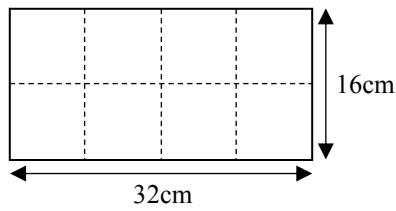


26. The above figure is formed by 21 squares of the same size. The area of one square is $36cm^2$. What is the perimeter of the above figure?

- A. 60cm $36 = 6 \times 6$
 The side of each square is 6cm.
B. 120cm The perimeter of the above figure is $(6 \times 7 + 6 \times 3) \times 2 = 120(cm)$
 C. 252cm
 D. 504cm

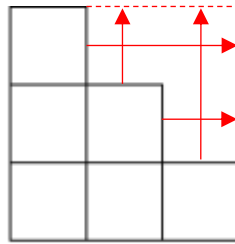
26. 上圖是由 21 個大小相同的正方形組成，每個正方形的面積是 $36cm^2$ 。以上圖形的周界是多少？

- A. 60cm $36 = 6 \times 6$
 每個正方形的邊長是 6cm。
B. 120cm 以上圖形的周界是 $(6 \times 7 + 6 \times 3) \times 2 = 120(cm)$
 C. 252cm
 D. 504cm



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**
- The perimeter of the new figure is $(16 \div 2) \times 3 \times 4 = 96(\text{cm})$

- A. 48cm
 - B. 64cm
 - C. 84cm
 - D. 96cm**
- 這個新圖形的周界是 $(16 \div 2) \times 3 \times 4 = 96(\text{cm})$

Number of Rooms Rented in a Hotel in the Past Five Days

某酒店過去五天租出房間的數量



28. If the rental fee of each room is \$150 each day, how much could the hotel get from renting rooms in the past five days?

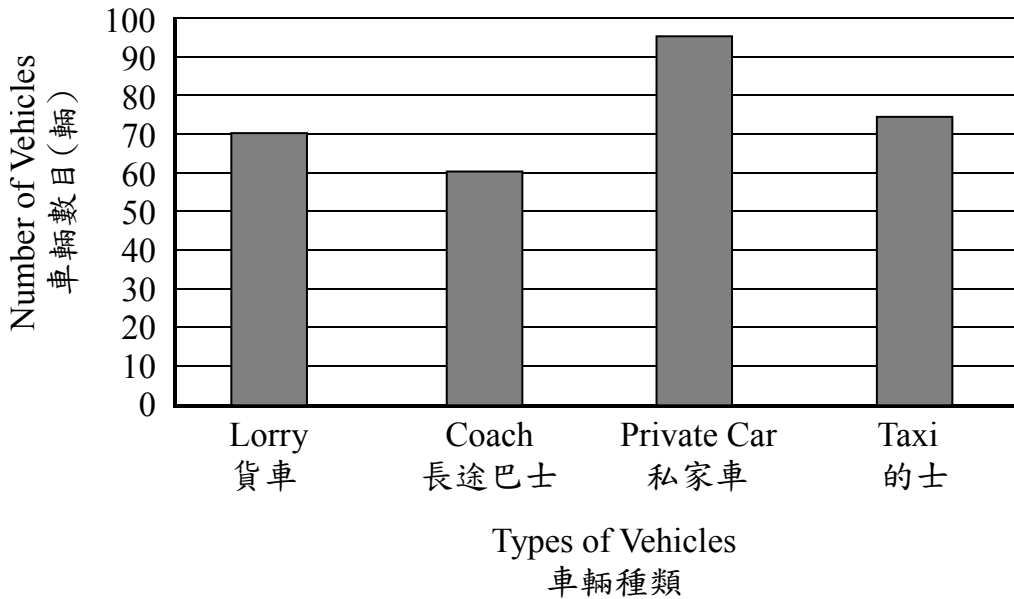
- A. \$750 The hotel could get
 $150 \times (4 + 6 + 3 + 4 + 7)$
= \$3600
- B. \$3450
- C. \$3600
- D. \$3750

28. 如果每間房間的租用費是每天\$150，酒店過去五天租出房間共收得款項多少？

- A. \$750 共收得款項
 $150 \times (4 + 6 + 3 + 4 + 7)$
= \$3600
- B. \$3450
- C. \$3600
- D. \$3750

Number of Vehicles Passing the Toll Station Yesterday

昨天經過收費站的車輛數目



29. How many times of the number of coach is the total number of vehicles passing the toll station yesterday?

- A. 3
- B. 4
- C. 5**
- D. 6

The total number of vehicles passing the toll station is
 $70 + 60 + 95 + 75$
 $= 300$
 $300 \div 60 = 5$

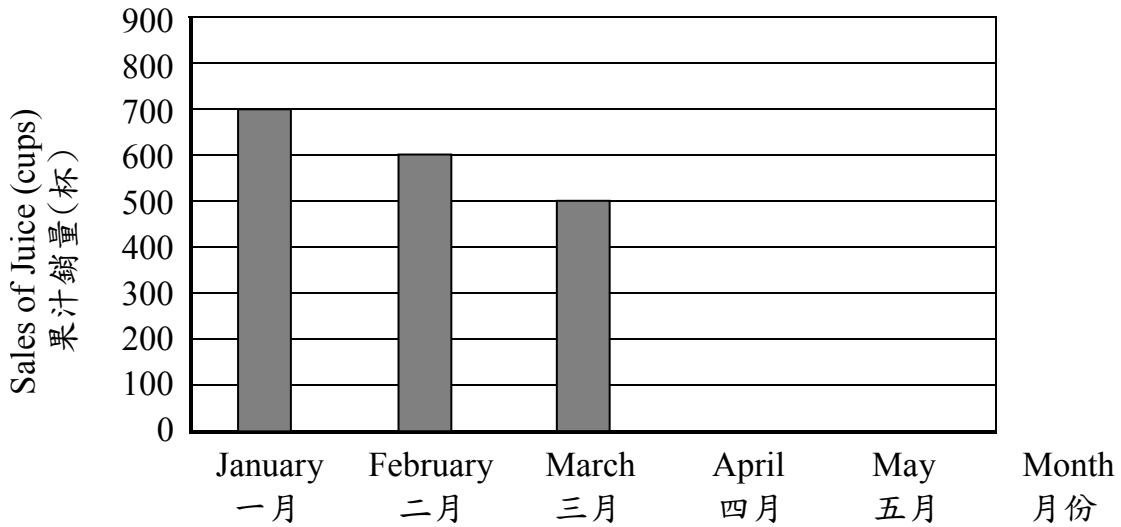
29. 昨天經過收費站的車輛總數是長途巴士數量的多少倍？

- A. 3
- B. 4
- C. 5**
- D. 6

經過收費站的車輛總數是
 $70 + 60 + 95 + 75$
 $= 300$ (輛)
 $300 \div 60 = 5$

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?

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 The total sales of juice in April and May are: $3000 - 700 - 600 - 500 = 1200$ (cups)
- B. 600 The sales of juice in May is 3 times that in April, so the total sales of juice in April and May is 4 times that in April.
- C. 900** The sales of juice in April are: $1200 \div 4 = 300$ (cups)
- D. 1200 The sales of juice in May are: $300 \times 3 = 900$ (cups)

- A. 300 四月和五月果汁的總銷量是： $3000 - 700 - 600 - 500 = 1200$ (杯)
- B. 600 五月果汁的銷量是四月的3倍，所以四月和五月果汁的總銷量是四月的4倍。
- C. 900** 四月果汁的總銷量是： $1200 \div 4 = 300$ (杯)
- D. 1200 五月果汁的總銷量是： $300 \times 3 = 900$ (杯)

End of Section A

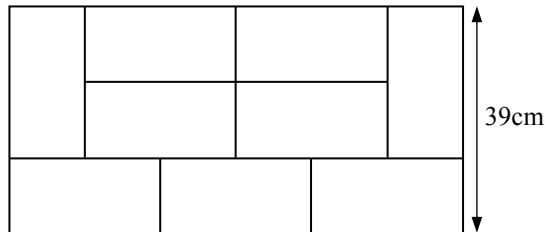
甲部完

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. (a) The above figure is made from nine rectangles of the same size and same shape. What is the perimeter of each rectangle?

78cm (Give the answer only)
The width of the small rectangle is: $39 \div 3 = 13(\text{cm})$
The length of the small rectangle is: [2 marks]
 $13 \times 2 = 26(\text{cm})$
The perimeter of the small rectangle is:
 $(26 + 13) \times 2 = 78(\text{cm})$

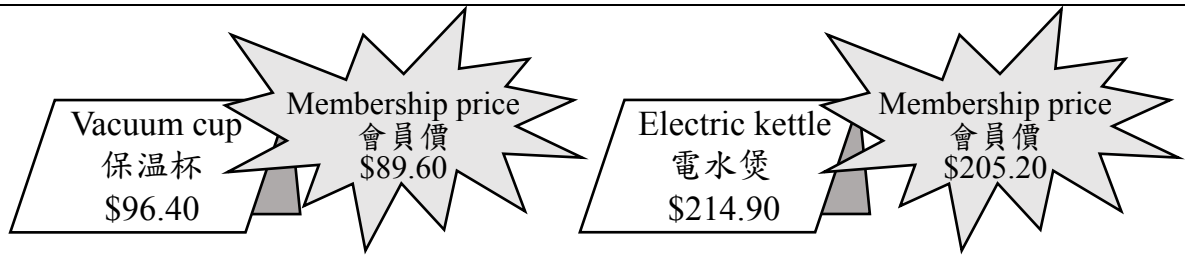
(b) What is the area of the big rectangle? [4 marks]
 $26 \times 13 \times 9$
 $= 3042$

The area of the big rectangle is 3042cm^2 .

31. (a) 上圖由九個大小和形狀相同的長方形組成。每個長方形的周界是多少？(只須寫出答案) [2 分]

78cm
小長方形的闊是： $39 \div 3 = 13(\text{cm})$
小長方形的長是： $13 \times 2 = 26(\text{cm})$
小長方形的周界是： $(26 + 13) \times 2 = 78(\text{cm})$

(b) 大長方形的面積是多少？ [4 分]
 $26 \times 13 \times 9$
 $= 3042$
大長方形的面積是 3042cm^2 。



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]

$$89.6 + 205.2 = 294.8$$

He should pay \$294.8.

(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) voucher [2 marks]

If he uses the voucher, he should pay:
 $96.4 + 214.9 - 20 = \$291.3$, $291.3 < 294.8$

32. 以上是百貨公司保温杯和電水煲的售價。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 個保温杯和 1 個電水煲。

(a) 如果爸爸持有會員卡，他應付款多少？ [4 分]

$$89.6 + 205.2 = 294.8$$

他應付款\$294.8。

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

代金券 [2 分]
 使用代金券須付款：
 $96.4 + 214.9 - 20 = \$291.3$ ， $291.3 < 294.8$

33. 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

33. 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。

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 at Sunny Restaurant, how much should the four of them pay in total?

$$228 \times 3 + 228 \div 2 = 798 \quad [4 \text{ marks}]$$

The four of them should pay \$798.

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

Delicious [2 marks]

At Delicious Restaurant, they should pay:

$$(220 - 25) \times 4 = \$780,$$

which is less than \$798 that should pay at Sunny Restaurant.

(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]

$$228 \times 3 + 228 \div 2 = 798$$

他們四人共須付\$798。

(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]

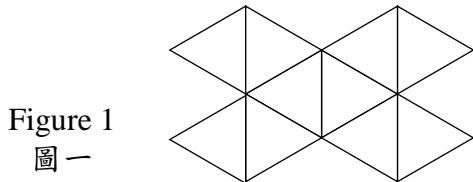
美味

在美味餐廳，他們須付：

$$(220 - 25) \times 4 = \$780,$$

比在陽光餐廳所付的\$798少。

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



(a) If the perimeter of Figure 2 is 24cm shorter than that of Figure 1, what is the perimeter of

Figure 2? [4 marks]

$$24 \div (12 - 8) \times 8$$

$$= 48$$

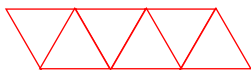
The perimeter of Figure 2 is 48cm.

(b) If the Figure 2 is changed into a quadrilateral, what kind of quadrilateral should be obtained?

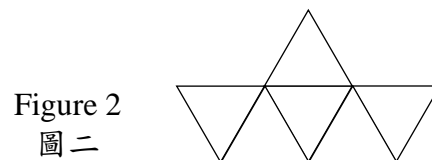
(Give the answer only)

Parallelogram

[2 marks]



34. 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。



(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？ [4 分]

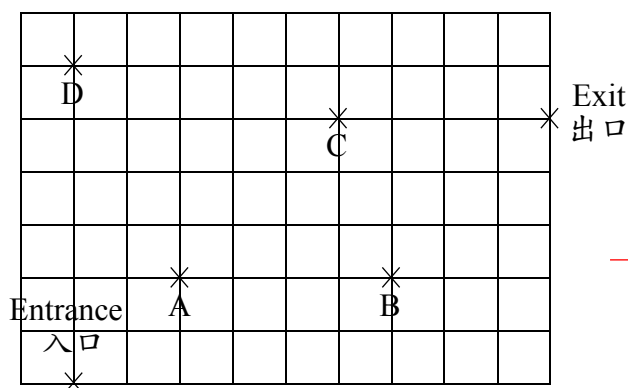
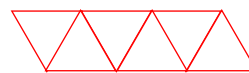
$$24 \div (12 - 8) \times 8$$

$$= 48$$

圖二的周界是 48cm。

(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]

平行四邊形



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

35. 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。

35. (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]

southeast

(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]

$$80 - 24\frac{5}{8} - 33\frac{7}{8} = 21\frac{1}{2}$$

There were $21\frac{1}{2}$ kg of almonds in Miss Leung's snack shop.

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

$$54\frac{7}{10} + 36\frac{9}{10} - 77\frac{3}{10} = 14\frac{3}{10}$$

The difference is $14\frac{3}{10}$ kg.

35. (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)

東南

[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？

$$80 - 24\frac{5}{8} - 33\frac{7}{8} = 21\frac{1}{2}$$

[4 分]

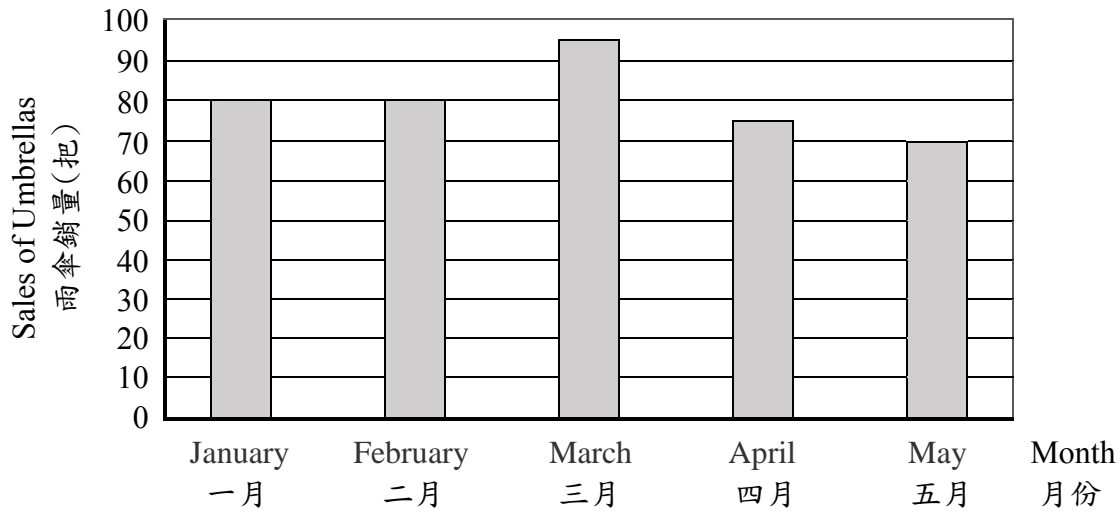
梁小姐的零食店有杏仁 $21\frac{1}{2}$ kg。

(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]

$$54\frac{7}{10} + 36\frac{9}{10} - 77\frac{3}{10} = 14\frac{3}{10}$$

售出的肉乾和果脯的重量相差 $14\frac{3}{10}$ kg。

Sales of Umbrellas in a Convenience Store from January to May
便利店在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]

255
 $80 + 80 + 95 = 255$

(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]

The income of umbrellas in April was: $29 \times 75 = \$2175$,
 The income of umbrellas in May was: $33 \times 70 = \$2310$,
 $2310 > 2175$
 (Accept any other reasonable explanation)
 disagree

36. 上圖顯示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]

255
 $80 + 80 + 95 = 255$

(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]

四月售出雨傘的收入是：
 $29 \times 75 = \$2175$ ，
 五月售出雨傘的收入是：
 $33 \times 70 = \$2310$ ，
 $2310 > 2175$
 (其他合理解釋也可接受)
 不同意

End of Test Paper

測驗卷完