

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One

中一入學前

Mathematics

數學

Mock Paper 2

模擬試卷(二)

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。

長河中一入學前數學科分類練習 + 模擬試卷(小五)

LONG RIVER  長河

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 316 205, how many times of the value of '2' is that of '6'?

- A. 150
- B. 30
- C. 12
- D. 3

1. 在 316 205 這個數中，「6」的數值是「2」的多少倍？

- A. 150
- B. 30
- C. 12
- D. 3

2. A pineapple weighs $\frac{13}{20}$ kg. It is $2\frac{1}{5}$ kg lighter than a watermelon. What is the total weight of them?

- A. $1\frac{11}{20}$ kg
- B. $2\frac{17}{20}$ kg
- C. $3\frac{1}{2}$ kg
- D. $3\frac{3}{4}$ kg

2. 一個菠蘿重 $\frac{13}{20}$ kg，比一個西瓜輕 $2\frac{1}{5}$ kg，它們共重多少？

- A. $1\frac{11}{20}$ kg
- B. $2\frac{17}{20}$ kg
- C. $3\frac{1}{2}$ kg
- D. $3\frac{3}{4}$ kg

3. Which of the following numbers is a prime number?

- A. 54
- B. 53
- C. 52
- D. 51

3. 下列哪一個數是質數？

- A. 54
- B. 53
- C. 52
- D. 51

4. In the number 30.050, which place value of '0' can be deleted?

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

4. 在 30.050 這個數中，哪個位值的「0」可被刪掉？

- A. 個位
- B. 十分位
- C. 百分位
- D. 千分位

5. There are 136 employees in a company. Each employee needs 8 files. If the company has 7 dozen files, at least how many more files should the company buy for the employees?

- A. 1004
- B. 1014
- C. 1020
- D. 1102

5. 某公司有 136 名員工，每名員工需要 8 個文件夾。如果公司現存有 7 打文件夾，公司最少要為員工多購買文件夾多少個？

- A. 1004
- B. 1014
- C. 1020
- D. 1102

5

1

6

.

6. Using all the four cards above, Bob made the largest number with one decimal place while Eva made the smallest number with two decimal places. What was the difference between the numbers they made?

- A. 63.54
- B. 63.45
- C. 59.94
- D. 59.85

6. 利用以上全部的四張卡片，志強拼出一個最大的一位小數，而依琳拼出一個最小的兩位小數，他們所拼出來的數相差多少？

- A. 63.54
- B. 63.45
- C. 59.94
- D. 59.85

7. The population of a city is about 694 000 when corrected to the nearest thousand. Which of the following can be the largest population of the city?

- A. 693 500
- B. 693 999
- C. 694 499
- D. 694 999

7. 取近似值至千位後，某城市的人口約有 694 000。下列哪一個數可能是該城市人口的最大值？

- A. 693 500
- B. 693 999
- C. 694 499
- D. 694 999

8. $9\frac{3}{5}$ L of coffee is poured into paper cups of capacity of $\frac{3}{20}$ L each. How many paper cups can be filled at most?

- A. 4
- B. 36
- C. 60
- D. 64

8. 把 $9\frac{3}{5}$ L 咖啡倒進容量各是 $\frac{3}{20}$ L 的紙杯，最多可注滿紙杯多少個？

- A. 4
- B. 36
- C. 60
- D. 64

9. Linda reloaded \$100 to her Octopus card. Then she paid \$43.5 with her Octopus card. The remaining value in her Octopus card was \$88.6. What was the remaining value in her Octopus card before it was reloaded?

- A. \$11.4
- B. \$23.6
- C. \$32.1
- D. \$45.1

9. 麗敏把八達通增值 \$100，然後以八達通付款 \$43.5，她的八達通的餘額是 \$88.6。她的八達通增值前有餘額多少？

- A. \$11.4
- B. \$23.6
- C. \$32.1
- D. \$45.1

10. How many ' $\frac{2}{7}$'s should be added together to make the sum of 14?

- A. 7
- B. 14
- C. 21
- D. 49

10. 多少個「 $\frac{2}{7}$ 」相加後的總和是14?

- A. 7
- B. 14
- C. 21
- D. 49

11. The ticket for a circus costs \$120. A reduction of \$40 is given to the purchase of a group of 16 tickets. By how much is a ticket cheaper on average?

- A. $\$2\frac{1}{2}$
- B. \$3
- C. $\$7\frac{1}{2}$
- D. \$80

11. 每張馬戲團門票售\$120。現購買團體票共16張，可獲減價\$40，平均每張門票便宜了多少？

- A. $\$2\frac{1}{2}$
- B. \$3
- C. $\$7\frac{1}{2}$
- D. \$80

12. A jogging track is $1\frac{1}{5}$ km long. Mike ran $\frac{1}{4}$ km. How much more should he run in order to reduce the remaining distance to half of the total distance?

- A. $\frac{3}{5}$ km
- B. $\frac{1}{2}$ km
- C. $\frac{7}{20}$ km
- D. $\frac{3}{10}$ km

12. 一條緩跑徑長 $1\frac{1}{5}$ km，英偉跑了 $\frac{1}{4}$ km。他應再跑多少，才能使餘下的路程減至全程的一半？

- A. $\frac{3}{5}$ km
- B. $\frac{1}{2}$ km
- C. $\frac{7}{20}$ km
- D. $\frac{3}{10}$ km

13. $\frac{1}{10}$ kg of jelly powder is needed to make a cup of jelly. My mother wants to make 15 cups of jelly. How much jelly powder is needed?

- A. 1kg
- B. $1\frac{1}{2}$ kg
- C. 2kg
- D. $2\frac{1}{2}$ kg

13. 做一杯啫喱需用 $\frac{1}{10}$ kg 啫喱粉，媽媽想做 15 杯啫喱，需用啫喱粉多少？

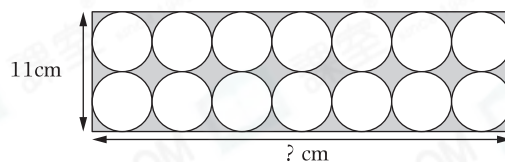
- A. 1kg
- B. $1\frac{1}{2}$ kg
- C. 2kg
- D. $2\frac{1}{2}$ kg

14. Ken spent \$13.5 a day in April on average. How much did he spend altogether in April?

- A. \$378
- B. \$391.5
- C. \$405
- D. \$418.5

14. 文浩在四月份平均每天用 \$13.5，他在四月份共用了款項多少？

- A. \$378
- B. \$391.5
- C. \$405
- D. \$418.5

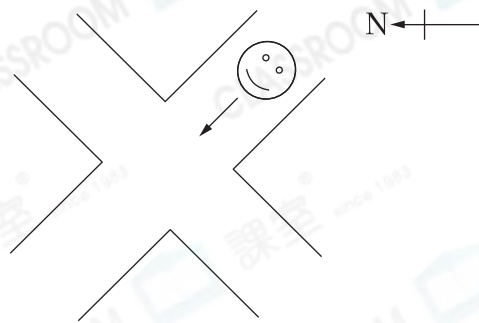


15. There are 14 circles of the same size in a rectangle, as shown above. What is the length of the rectangle?

- A. 77cm
- B. $38\frac{1}{2}$ cm
- C. 33cm
- D. $19\frac{1}{4}$ cm

15. 長方形內有 14 個大小相同的圓，如上圖所示。長方形的長是多少？

- A. 77cm
- B. $38\frac{1}{2}$ cm
- C. 33cm
- D. $19\frac{1}{4}$ cm

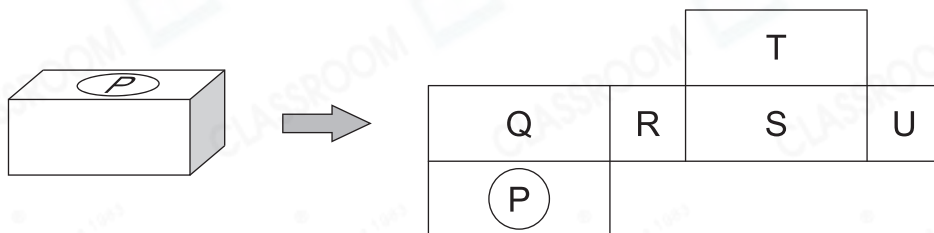


16. In the above figure, when Ada arrives at the junction, she will turn left and walk on. In which direction will she walk on?

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

16. 上圖中，當樂佳步行至分岔路口時，她會轉左繼續步行，即她向哪一方繼續步行？

- A. 東南
- B. 東北
- C. 西南
- D. 西北



17. A rectangular box is unfolded to give a net, as shown in the above figure. If the face with the letter 'P' is the top of the box, which letter is at the bottom of the box?

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

17. 把一個長方體盒子展開後，得出一摺紙圖樣，如上圖所示。如果摺紙圖樣中寫着字母「P」的一面是盒子的頂部，那麼在它的底部是哪一個字母？

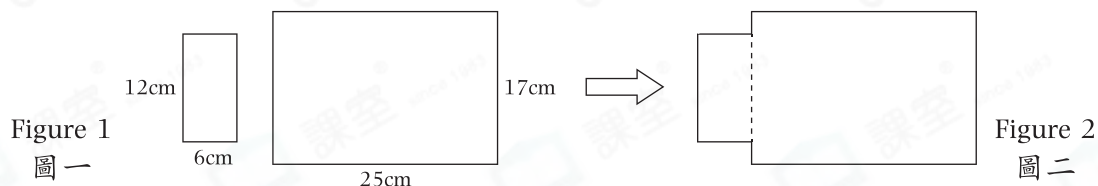
- A. Q
- B. R
- C. S
- D. T

18. How many edges in a cuboid?

- A. 16
- B. 14
- C. 12
- D. 10

18. 長方體共有稜多少條？

- A. 16
- B. 14
- C. 12
- D. 10

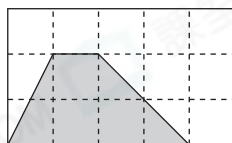


19. Figure 2 is formed by fitting two rectangles shown in Figure 1. What is its perimeter?

- A. 120cm
- B. 96cm
- C. 86cm
- D. 84cm

19. 圖二是由圖一所示的兩個長方形拼砌而成，它的周界是多少？

- A. 120cm
- B. 96cm
- C. 86cm
- D. 84cm



20. The figure is formed by 15 squares of the same size. Its perimeter is 96cm. What is the area of the shaded part?

- A. 180cm^2
- B. 216cm^2
- C. 288cm^2
- D. 360cm^2

20. 上圖由 15 個大小相同的正方形組成，它的周界是 96cm。陰影部分的面積是多少？

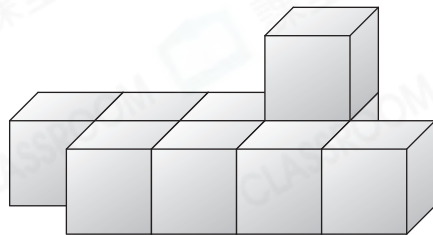
- A. 180cm^2
- B. 216cm^2
- C. 288cm^2
- D. 360cm^2

21. Amy used two iron wires to form two separate squares of areas 16cm^2 and 25cm^2 . What is the total length of the two iron wires?

- A. 9cm
- B. 18cm
- C. 36cm
- D. 41cm

21. 艾莉用兩條鐵線分別圍出面積是 16cm^2 和 25cm^2 的正方形，這兩條鐵線共長多少？

- A. 9cm
- B. 18cm
- C. 36cm
- D. 41cm



22. The solid shown above is formed by small cubes of the same size. The side of each small cube is 2cm. What is the volume of the solid?

- A. 72cm^3
- B. 64cm^3
- C. 36cm^3
- D. 32cm^3

22. 上面的立體是由大小相同的小正方體組成，每個小正方體的邊長是 2cm，這個立體的體積是多少？

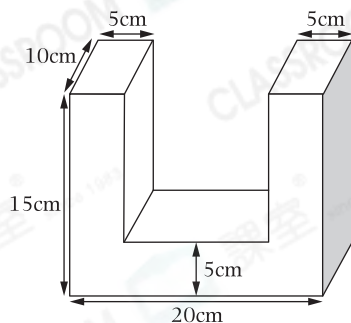
- A. 72cm^3
- B. 64cm^3
- C. 36cm^3
- D. 32cm^3

23. A cuboid is 15cm long and 6cm wide. The volume of the cuboid is 900cm^3 . What is its height?

- A. 8cm
- B. 9cm
- C. 10cm
- D. 20cm

23. 一個長方體長 15cm，闊 6cm。它的體積是 900cm^3 ，高是多少？

- A. 8cm
- B. 9cm
- C. 10cm
- D. 20cm



24. What is the volume of the above solid?

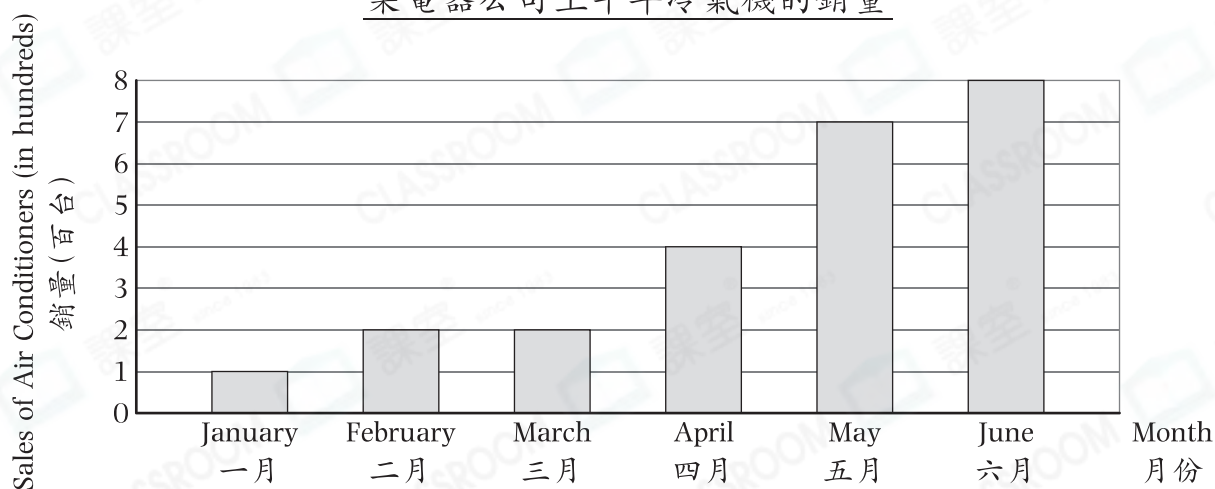
- A. 1500cm^3
- B. 1750cm^3
- C. 2000cm^3
- D. 2500cm^3

24. 上圖立體的體積是多少？

- A. 1500cm^3
- B. 1750cm^3
- C. 2000cm^3
- D. 2500cm^3

Sales of Air Conditioners of an Electrical Appliance Company in the First Half Year

某電器公司上半年冷氣機的銷量



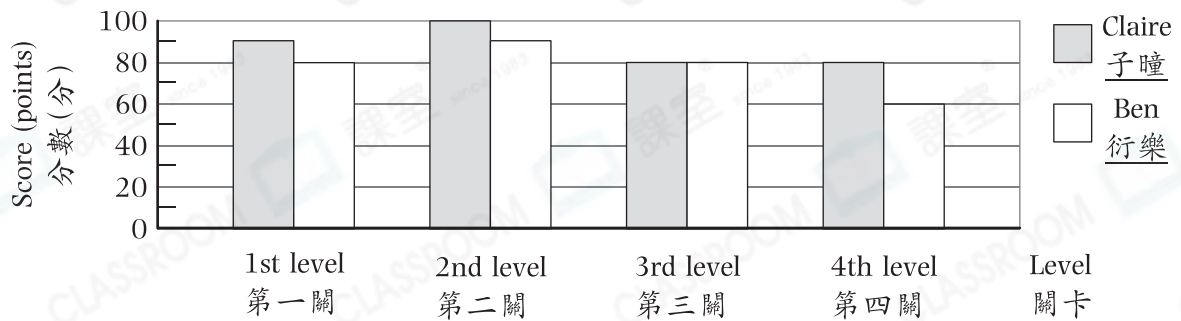
25. How many times of the sales in February is that in June?

- A. 2
- B. 3
- C. 4
- D. 5

25. 六月份冷氣機的銷量是二月份的多少倍？

- A. 2
- B. 3
- C. 4
- D. 5

Scores that Claire and Ben Gets at the Four Levels in a Game
 子瞳和衍樂在四關遊戲中的得分



26. According to the above graph, what is the difference in the total scores of the four levels between Claire and Ben?

- A. 40
- B. 80
- C. 310
- D. 350

26. 根據上圖，子瞳和衍樂四關遊戲的總分相差多少分？

- A. 40
- B. 80
- C. 310
- D. 350

Grade 年級	P1	P2	P3	P4	P5	P6
Number of students 學生人數	90	110	85	95	100	80

27. Miss Wong would like to use bar chart to show the number of students in different grades. Which of the following is the most suitable interval for each bar of the number of students?

- A. 100
- B. 50
- C. 10
- D. 1

27. 王老師想用棒形圖來表示學校各級的學生人數，下列哪個數值最適合用來表示每格代表的人數？

- A. 100
- B. 50
- C. 10
- D. 1

28. There were 20 participants in a barbecuing activity. They went to the farm by bus. If the fee for hiring bus was $\$M$ and the fee for hiring tools for each participant was $\$42$, what was the total cost for this activity?

- A. $\$(M + 42)$
- B. $\$(20M + 840)$
- C. $\$(20M + 42)$
- D. $\$(M + 840)$

28. 一個燒烤活動有 20 位參加者，他們租用大巴前往農莊。如果租車的費用是 $\$M$ ，每位參加者的用具租借費是 $\$42$ ，那麼整個活動的總費用是多少？

- A. $\$(M + 42)$
- B. $\$(20M + 840)$
- C. $\$(20M + 42)$
- D. $\$(M + 840)$

$$\begin{array}{r}
 \begin{array}{|c|c|} \hline 5 & 8 \\ \hline \end{array} \\
 + \begin{array}{|c|c|} \hline S & R \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|c|} \hline 1 & 0 & 4 \\ \hline \end{array}
 \end{array}$$

29. Study the above expression. Find the result of $R \times S$.

- A. 6
- B. 10
- C. 20
- D. 24

29. 觀察以上的算式，找出 $R \times S$ 的結果。

- A. 6
- B. 10
- C. 20
- D. 24

30. If $6 + \frac{x}{3} = 30$, then $x = ?$

- A. 8
- B. 12
- C. 72
- D. 108

30. 如果 $6 + \frac{x}{3} = 30$ ，那麼 $x = ?$

- A. 8
- B. 12
- C. 72
- D. 108

End of Section A

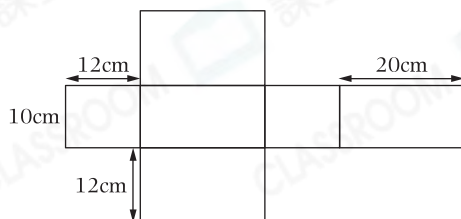
甲部完

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) What is the total area of this net? [4 marks]
- (b) What kind of solid can the net be folded into? (Give the answer only) [2 marks]
- (c) What is the volume of the solid? (Give the answer only) [2 marks]

31. (a) 這個摺紙圖樣的總面積是多少? [4分]
- (b) 這個摺紙圖樣可以摺成一個什麼立體? (只須寫出答案) [2分]
- (c) 該立體的體積是多少? (只須寫出答案) [2分]

32. Last year, the weight of my brother was 35kg and that of my sister was 24kg. This year, the weight of my sister increased by 3.6kg and that of my brother was 1.08 times of his weight last year.

- (a) What is the weight of my brother this year? [4 marks]
- (b) What is the difference in weight between them this year? (Give the answer only) [2 marks]

32. 弟弟和妹妹去年的體重分別是 35kg 和 24kg。妹妹今年的體重比去年的增加了 3.6kg，弟弟今年的體重是去年的 1.08 倍。

- (a) 弟弟今年的體重是多少? [4分]
- (b) 今年兩人的體重相差多少? (只須寫出答案) [2分]

Happy Supermarket

開心超級市場

One stamp will be rewarded for any purchase of \$5. 8 stamps are needed for redeeming a cup for free.
消費滿 \$5 可獲得 1 個印花，每 8 個印花可換領水杯一個。

Members can enjoy the offers below:

會員可享有以下優惠：

Offer 1 優惠一	A \$5 voucher will be rewarded for any purchase of \$100. 消費每滿 \$100 可得一張 \$5 代用券。
Offer 2 優惠二	A \$15 voucher will be rewarded for any purchase of \$200. 消費每滿 \$200 可得一張 \$15 代用券。

33. (a) Grace was not a member of Happy Supermarket. She spent \$100 on shopping and got change of \$8. How many stamps could she get at most? [4 marks]

(b) If Kola is the member of Happy Supermarket and spends \$400 on shopping, can she get vouchers of total value more than \$25? Explain. [4 marks]

33. (a) 美華不是開心超級市場的會員。她付了 \$100 購物，找回 \$8。她最多可獲得印花多少個？ [4分]

(b) 如果凱琳是開心超級市場的會員，並以 \$400 購物，她能否獲得總值超過 \$25 的代用券？試解釋。 [4分]

34. Fiona had 56 candies while Lucy had 48 candies

(a) Fiona ate h candies each day. How many candies were left after 8 days? (Give the answer only and express the answer in terms of h) [2 marks]

34. 婷芳有 56 顆糖果，麗雯有 48 顆糖果。

(a) 婷芳每天吃去 h 顆糖果，8 天後，她餘下糖果多少顆？(只須寫出答案，答案以 h 表示) [2分]

34. (b) Lucy ate all the candies in 10 days. During the first 9 days, she ate k candies each day. On the last day, she ate 3 candies. How many candies did she eat on each of the first 9 days? (Use equation to solve the problem and show your working)

[4 marks]

34. (b) 麗雯用了10天吃完全部糖果。在首9天，她每天吃去 k 顆。在最後一天，她吃去3顆。她在首9天每天吃去糖果多少顆？(須用方程列式計算)

[4分]

35. (a) There are 104 members in the acrobatic troupe. $\frac{3}{8}$ of them are male. How many members are female? (Give the answer only)

[2 marks]

35. (a) 雜技團共有成員104人，其中 $\frac{3}{8}$ 是男性，女性有多少人？(只須寫出答案)

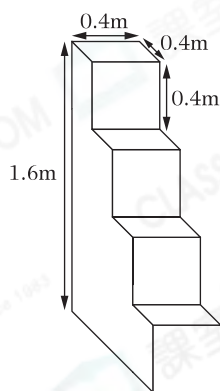
[2分]

(b) The acrobatic troupe sets the stand below on the stage. Each step of it has the same width and same height. What is the volume of the stand?

[4 marks]

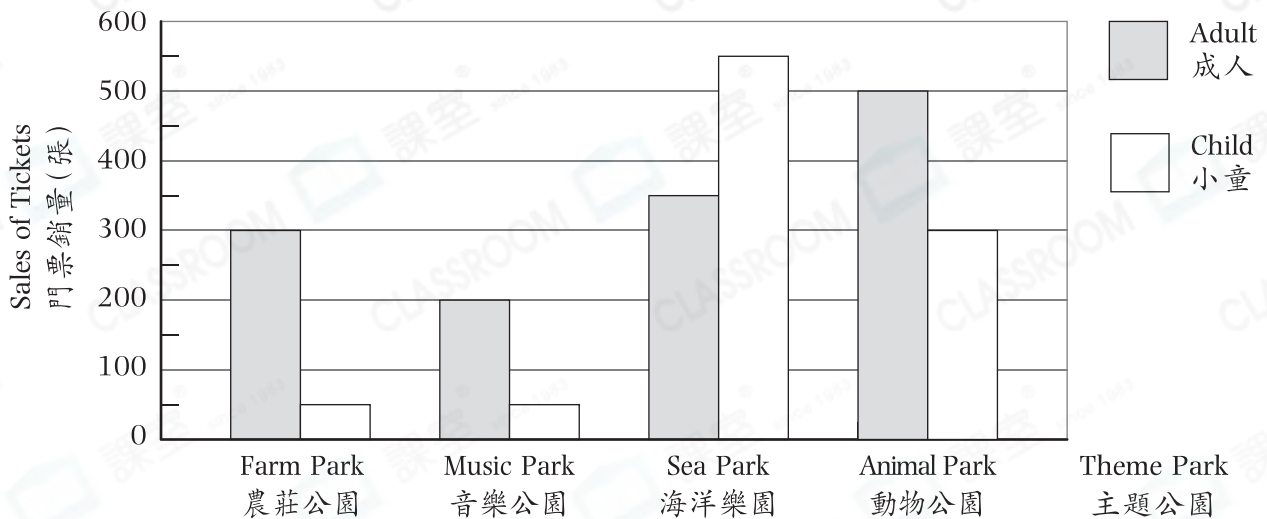
(b) 雜技團在舞台設置了一個下面的台階。台階上每級的闊度相等，高度亦相同。這個台階的體積是多少？

[4分]



Sales of Tickets of Theme Parks Yesterday

主題公園昨天的門票銷量



36. (a) What fraction of the sales of adult tickets of Farm Park is that of child tickets? (Give the answer only) [2 marks]
- (b) Which theme park had the highest sales of tickets? How many tickets were sold? (Give the answer only) [2 marks]
- (c) After 200 more child tickets of the same theme park are sold, it is found that in that theme park, the sales of child tickets changes from less than to more than the sales of adult tickets. Draw a bar representing the new sales of the theme park on the answer sheet. [2 marks]

36. (a) 農莊公園小童票的銷量是成人的幾分之幾？(只須寫出答案) [2分]
- (b) 哪一個主題公園的門票銷量最高？共售出門票多少張？(只須寫出答案) [2分]
- (c) 某一個主題公園多售出200張小童票後，發現該主題公園的小童票銷量，由原先比成人票銷量少變為較多。在答題紙上畫出代表該主題公園新門票銷量的棒條。 [2分]

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One Mathematics Mock Paper 2

中一入學前數學科模擬試卷(二)

Answer Sheet

答題紙

Name of Student

學生姓名：_____ (中文)

Class

_____ (English)

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	Algebra 代數
Section A 甲部	Item 題目	1-14	15-18	19-24	25-27	28-30
	Marks 分數					
Section B 乙部	31(a)					
	31(b)					
	31(c)					
	32(a)					
	32(b)					
	33(a)					
	33(b)					
	34(a)					
	34(b)					
	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 佔分	Marks 得分
31(a)		4	<input type="text"/>
31(b)	The net can be folded into a _____ . 這個摺紙圖樣可以摺成一個_____。	2	<input type="text"/>
31(c)	The volume of the solid is _____ cm^3 . 該立體的體積是_____ cm^3 。	2	<input type="text"/>
32(a)		4	<input type="text"/>
32(b)	The difference in weight between them is _____ kg. 今年兩人的體重相差_____ kg。	2	<input type="text"/>

Go On To Next Page
轉下頁續答

Marks
佔分

Marks
得分

33(a)

4

33(b)

Because
因為

* can / cannot (*Circle the answer)

* 能 / 不能 (*圈出答案)

4

34(a)

There were _____ candies left.

她餘下_____顆糖果。

2

34(b)

4

Go On To Next Page

轉下頁續答

Marks
估分

Marks
得分

35(a)

_____ members are female.

女性有_____人。

2

35(b)

4

36(a)

The fraction is _____.

小童票的銷量是成人的_____。

2

36(b)

_____ had the highest sales of tickets,

_____的門票銷量最高，

and _____ tickets were sold.

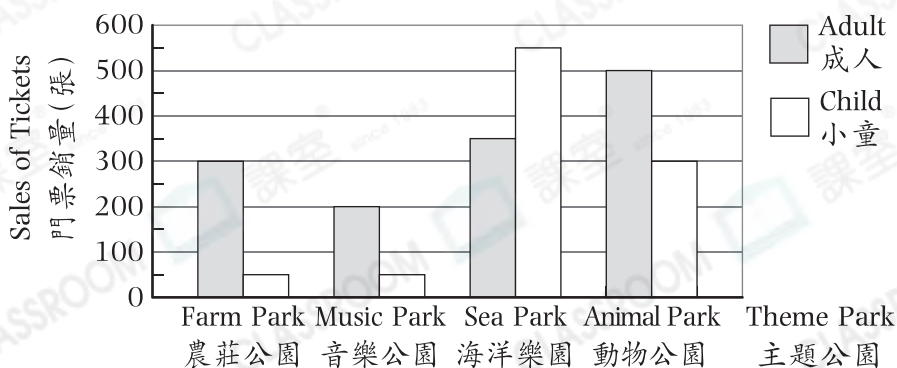
共售出_____張門票。

2

36(c)

Sales of Tickets of Theme Parks Yesterday

主題公園昨天的門票銷量



2

END
完