

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One

中一入學前

Mathematics

數學

Mock Paper 4

模擬試卷(四)

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 31-37
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 37 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(小六)

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. What is the difference of the smallest and the greatest multiples of 21 between 80 and 200?

- A. 63
- B. 84
- C. 105
- D. 126

1. 在 80 至 200 之間，21 的最小和最大的倍數之差是多少？

- A. 63
- B. 84
- C. 105
- D. 126

2. Which of the following has the value smaller than 1?

- A. $0.33 \div 0.33$
- B. $0.33 \div 0.3$
- C. $0.303 \div 0.03$
- D. $0.3 \div 0.303$

2. 下列哪一項的值小於 1？

- A. $0.33 \div 0.33$
- B. $0.33 \div 0.3$
- C. $0.303 \div 0.03$
- D. $0.3 \div 0.303$

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

- A. $2M$
- B. $3N$
- C. $M + N$
- D. $M \times N$

3. 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？

- A. $2M$
- B. $3N$
- C. $M + N$
- D. $M \times N$

4. The number of people visiting the theme park is 300 000 when corrected to the nearest hundred thousand and 250 000 when corrected to the nearest ten thousand. Which of the following could be the possible number of people visiting the theme park?

- A. 259 000
- B. 251 000
- C. 246 000
- D. 243 000

4. 主題公園的入場人次取近似值至十萬位後為300 000，以及取近似值至萬位後為250 000。以下哪一項可能是主題公園的入場人次？

- A. 259 000
- B. 251 000
- C. 246 000
- D. 243 000

Set Meal 套餐

Price 售價

A	\$33.60
B	\$32.50
C	\$35.80



Add \$4.20 to any purchase of a set meal to get a cup of hot drinks. Only one cup of hot drinks can be redeemed upon the purchase of one set meal.

購買任何一份套餐，加\$4.20即可換購一杯熱飲。

購買一份套餐只可換購一杯熱飲。

5. According to the above menu, if Mr Chan got three cups of hot drinks, how much did he pay at least?

- A. \$110.1
- B. \$101.7
- C. \$45.1
- D. \$36.7

5. 根據上面的餐單，若陳先生換購了三杯熱飲，他最少已付款多少？

- A. \$110.1
- B. \$101.7
- C. \$45.1
- D. \$36.7

6. There were $7\frac{3}{4}$ kg of grapes in a fruit shop. The shopkeeper bought $8\frac{1}{2}$ kg more today and divided all the grapes into bags of $1\frac{1}{4}$ kg each. How many bags can the grapes be divided into?

- A. 13
- B. 12
- C. 7
- D. 6

6. 水果店原有 $7\frac{3}{4}$ kg 葡萄，店主今天再購入了 $8\frac{1}{2}$ kg 葡萄，並將所有葡萄每 $1\frac{1}{4}$ kg 分成一袋，共可分成多少袋？

- A. 13
- B. 12
- C. 7
- D. 6

7. A tunnel is $4\frac{4}{5}$ km long. The workers built $\frac{1}{8}$ km each day. How many days did they spend at least?

- A. 40
- B. 39
- C. 38
- D. 37

7. 一條隧道長 $4\frac{4}{5}$ km，工人每天建造 $\frac{1}{8}$ km，建成隧道最少需要多少天？

- A. 40
- B. 39
- C. 38
- D. 37

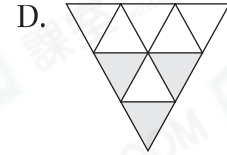
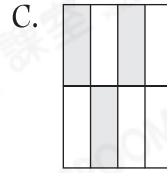
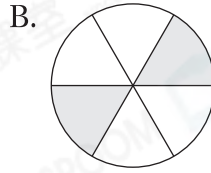
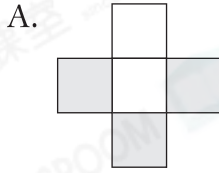
8. Ivy has 23 \$5 and \$10 coins altogether. If Ivy has 7 more \$5 coins than \$10 coins, how many \$5 coins does she have?

- A. 3
- B. 8
- C. 15
- D. 16

8. 美蓮有 \$5 和 \$10 硬幣共 23 個。如果美蓮的 \$5 硬幣比 \$10 的多 7 個，她有 \$5 硬幣多少個？

- A. 3
- B. 8
- C. 15
- D. 16

9. Which of the following figures has the largest fraction of the shaded part?



9. 下列哪一個圖形，它的陰影部分佔全圖的分數值最大？

640.3%

?

$6\frac{3}{8}$

5.66

10. The above four number cards are arranged from the largest value to the smallest value. Which of the following can be the number on the second card?

A. $6\frac{21}{34}$

B. 63.98%

C. 6.44

D. $6\frac{19}{50}$

10. 以上四張數字卡是按數值由大至小排列，以下哪一項可能是第二張卡上的數字？

A. $6\frac{21}{34}$

B. 63.98%

C. 6.44

D. $6\frac{19}{50}$

11. 120 students took an English Test. If 18 of them did not pass the English test, what percentage of the students passed the test?

A. 92%

B. 85%

C. 18%

D. 15%

11. 120名學生參加英文科測驗，其中有18名學生不及格，該次測驗的及格率是多少？

A. 92%

B. 85%

C. 18%

D. 15%

12. There were 125 students in Primary 6. 3 boys and 2 girls are newly enrolled now. What fraction of all Primary 6 students is new students?

- A. $\frac{2}{25}$
- B. $\frac{1}{25}$
- C. $\frac{1}{26}$
- D. $\frac{1}{50}$

12. 六年級原來有125名學生，現有3名男生和2名女生插班。插班生佔全級總人數的幾分之幾？

- A. $\frac{2}{25}$
- B. $\frac{1}{25}$
- C. $\frac{1}{26}$
- D. $\frac{1}{50}$

13. The fifth common multiple of two number is 120. Which of the following groups of numbers may be these two numbers?

- A. 5, 7
- B. 6, 8
- C. 6, 18
- D. 10, 12

13. 兩個數的第五個公倍數是120。以下哪一組數可能是這兩個數？

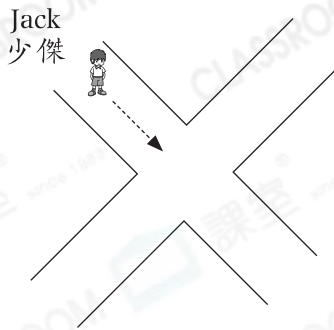
- A. 5、7
- B. 6、8
- C. 6、18
- D. 10、12

14. There were 180 books on the shelf, 30 of them were poetries, and 18% of the remaining were fables. What percentage of all the books were fables?

- A. 15%
- B. 20%
- C. 25%
- D. 82%

14. 書架上有180本圖書，其中30本是詩集。餘下的18%是寓言故事。寓言故事佔全部圖書的百分之幾？

- A. 15%
- B. 20%
- C. 25%
- D. 82%



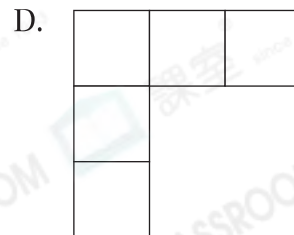
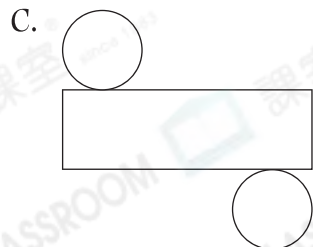
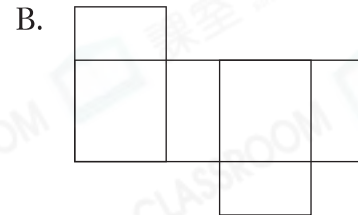
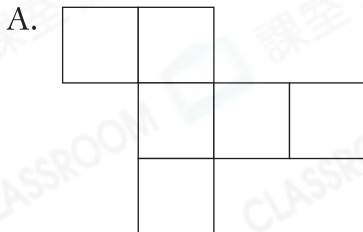
15. In the above figure, Jack was walking in the southwest along the footpath. When he arrived at the junction, he will turn right and walk on. In which direction will he walk then?

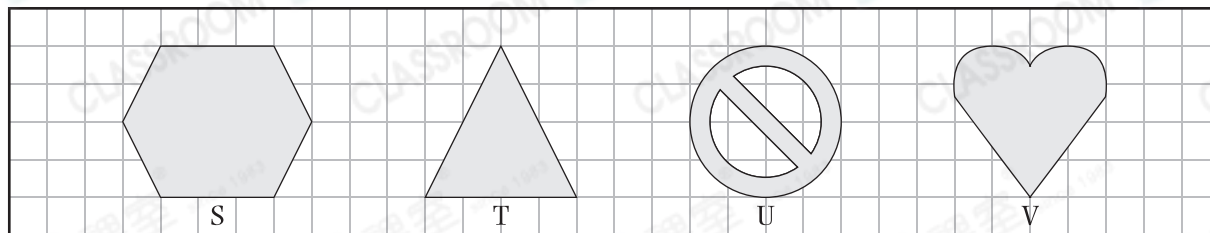
- A. northeast
- B. southeast
- C. northwest
- D. southwest

15. 上圖中，少傑正沿路向西南方步行。當他到達分岔路口時，他會轉右繼續步行，即他會向哪個方向步行？

- A. 東北
- B. 東南
- C. 西北
- D. 西南

16. Which of the following nets cannot be folded into a solid?





17. Which of the above figures have only one line of symmetry?

- A. S and T
- B. T and U
- C. U and V
- D. T and V

17. 以上哪些圖形只有一條對稱軸？

- A. S 和 T
- B. T 和 U
- C. U 和 V
- D. T 和 V

18. How many vertices does a rectangular prism have?

- A. 4
- B. 5
- C. 8
- D. 12

18. 四角柱共有多少個頂點？

- A. 4
- B. 5
- C. 8
- D. 12

19. There is a square fence of perimeter 48m outside a circular lawn. Lucy is at the centre of the lawn. What is the least distance she has to walk in order to reach the fence?

- A. 12m
- B. 8m
- C. 6m
- D. 4m

19. 一個圓形草地外圍有一個周界是 48m 的正方形圍欄。敏詩在草地中心，她最少要走多遠才可以走到圍欄？

- A. 12m
- B. 8m
- C. 6m
- D. 4m

Figure 1
圖一

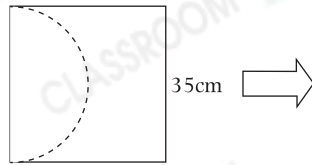
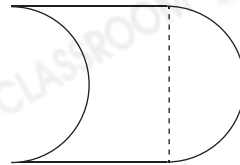


Figure 2
圖二



20. A semi-circle is cut along the dotted line from a piece of square paper. It is formed into a new figure as shown in Figure 2. What is the perimeter of Figure 2? (Take π as $\frac{22}{7}$)

A. 90cm
B. 125cm
C. 145cm
D. 180cm

20. 從正方形手工紙沿虛線剪出一個半圓形，並拼合成一個新圖形，如圖二所示。圖二的周界是多少？(取 π 為 $\frac{22}{7}$)

A. 90cm
B. 125cm
C. 145cm
D. 180cm

21. The diameter of a semi-circle is 14cm. What is the area of the semi-circle? (Take π as $\frac{22}{7}$)

A. 308cm^2
B. 154cm^2
C. 77cm^2
D. 44cm^2

21. 一個半圓的直徑是14cm。該半圓的面積是多少？(取 π 為 $\frac{22}{7}$)

A. 308cm^2
B. 154cm^2
C. 77cm^2
D. 44cm^2

22. A square is cut out from a rectangle of 20cm long and 10cm wide. What is the largest area of the square?

A. 40cm^2
B. 100cm^2
C. 200cm^2
D. 400cm^2

22. 從一個長20cm、闊10cm的長方形中剪出一個正方形，該正方形的面積最大是多少？

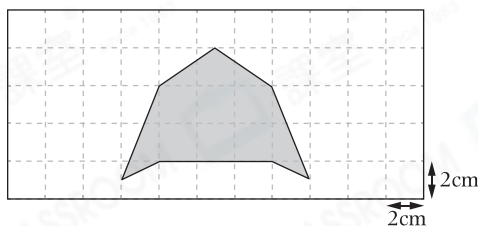
A. 40cm^2
B. 100cm^2
C. 200cm^2
D. 400cm^2

23. Which of the following angles is smaller than 180° ?

- A. Round angle
- B. Reflex angle
- C. Straight angle
- D. Obtuse angle

23. 下列哪種角的度數小於 180° ?

- A. 周角
- B. 反角
- C. 平角
- D. 鈍角



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

- A. 52cm^2
- B. 38cm^2
- C. 36cm^2
- D. 9.5cm^2

24. 上圖中，陰影部分的面積是多少？

- A. 52cm^2
- B. 38cm^2
- C. 36cm^2
- D. 9.5cm^2

25. Jim took part in an 8km race. After he ran at an average speed of 4m/s for 18 minutes, how far was he from the finishing line at that time?

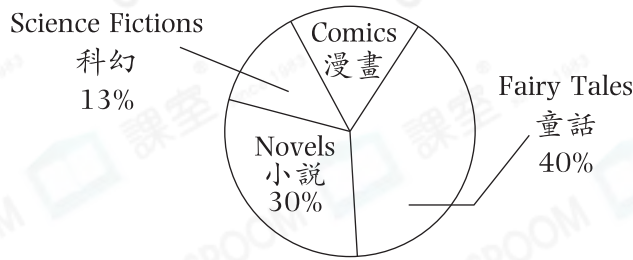
- A. 3680m
- B. 4320m
- C. 7928m
- D. 12320m

25. 思樂參加8km賽跑。他以4m/s的平均速率跑了18分鐘後，他距離終點還有多遠？

- A. 3680m
- B. 4320m
- C. 7928m
- D. 12320m

Sales of Books in Sunshine Bookstore Last Week

陽光書店上星期售出的圖書數量



26. Sunshine Bookstore sold 300 books altogether last week. How many comics were sold?

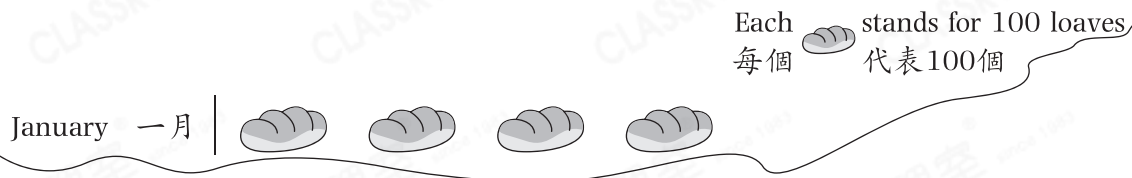
- A. 261
- B. 249
- C. 51
- D. 39

26. 陽光書店上星期共售出300本圖書，即售出漫畫書多少本？

- A. 261
- B. 249
- C. 51
- D. 39

Sales of a Bakery in the First Quarter

某麵包店在第一季麵包的銷量



27. The bakery sold 1300 loaves of bread in the first quarter. The sales of bread in February is half as that in March. How many [Bread Icon] should there be in the row of March?

- A. 600
- B. 9
- C. 6
- D. 3

27. 麵包店在第一季共售出1300個麵包，而且二月麵包的銷量是三月的一半，那麼在三月的一列中，應有 [Bread Icon] 多少個？

- A. 600
- B. 9
- C. 6
- D. 3

28. The average of 16, 32, a and a is 52. What number is a ?

- A. 54
- B. 80
- C. 108
- D. 160

28. 16、32、 a 和 a 的平均數是52。 a 是什麼數字？

- A. 54
- B. 80
- C. 108
- D. 160

29. The regular admission fee of art show is $\$K$ for each person. The organizer holds a special admission offer of 'For four people visiting the show together, the fourth person only pays $\$288$.' Jenny and 3 friends visit the show together. How much does each of them pay on average?

- A. $\$ \frac{3K + 288}{4}$
- B. $\$ \frac{4K + 288}{3}$
- C. $\$ \frac{3K - 288}{4}$
- D. $\$ \frac{4K - 288}{3}$

29. 畫展的入場費正價為每人 $\$K$ ，現提供「四人同行，第四位只須付 $\$288$ 」的入場優惠。靜嫻和3位朋友一起進場，她們平均每人須付款多少？

- A. $\$ \frac{3K + 288}{4}$
- B. $\$ \frac{4K + 288}{3}$
- C. $\$ \frac{3K - 288}{4}$
- D. $\$ \frac{4K - 288}{3}$

30. If $(y + 5) \times \frac{3}{8} = 5 \frac{1}{4}$, then $y = ?$

- A. 8
- B. 9
- C. 18
- D. 19

30. 如果 $(y + 5) \times \frac{3}{8} = 5 \frac{1}{4}$ ，那麼 $y = ?$

- A. 8
- B. 9
- C. 18
- D. 19

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. Every day, Lina has to reach the arts centre at 15:20 to attend drawing class.

- (a) Lina drove from her home to the arts centre at 14:40, the average speed of the car was 48km/h. Lina was late for 10 minutes. What was the distance from Lina's home to the arts centre?
[4 marks]

- (b) If Lina needed to reach the arts centre at 15:20, what should be the average speed of the car?
[4 marks]

31. 倩玲每天 15:20 到藝術中心參加繪畫班。

- (a) 倩玲於 14:40 駕車從家前往藝術中心，汽車的平均速率是 48km/h，結果倩玲遲到了 10 分鐘。倩玲家到藝術中心的路程是多少？ [4分]

- (b) 如果倩玲要在 15:20 到達藝術中心，汽車的平均速率應是多少？ [4分]

32. For a buffet in Happy Hotel, an adult's fee was \$380 and a child's fee was \$228. There were 75 people having the buffet in the community for an activity and $\frac{1}{3}$ of them were children.

- (a) What percentage of an adult's fee was a child's fee? (Give the answer only) [2 marks]
- (b) What was the total fee of the adults? [4 marks]

32. 快樂酒店自助餐的成人收費是每位 \$380，小童收費是每位 \$228。社區中心安排 75 名參加活動的居民享用自助餐，其中 $\frac{1}{3}$ 是小童。

- (a) 每位小童的收費是每位成人的百分之幾？(只須寫出答案) [2分]
- (b) 成人收費的總和是多少？ [4分]

33. The charge of a car park is as follows:

33. 某停車場的收費如下：

First 2 hours 首2小時	\$18 per hour 每小時\$18
Every half an hour thereafter 以後每半小時 * Half-hourly rate is charged for parking time less than half an hour * 不足半小時亦以半小時收費計算	\$6.50

Miss Ng parked her car in the car park at 08:45. She drove away at 13:00 on the same day. How much parking fee should she pay?[4 marks]

吳小姐在08:45把汽車停泊在停車場，於當天13:00駕車離開。她須付泊車費多少？ [4分]

34. Miss Fang bought 4 packets of milk candies and y packets of fruit candies.

34. 方小姐購買了4包牛奶糖和 y 包果汁糖。

	Weight (Each packet) 重量(每包)
Milk candy 牛奶糖	0.45kg
Fruit candy 果汁糖	1.2kg

If Miss Fang bought 5.4kg of candies, how many packets of fruit candies did Miss Fang buy? (Use equation to solve the problem and show your working) [4 marks]

如果方小姐購買了5.4kg糖果，她買了果汁糖多少包？(須用方程列式計算) [4分]

35. Figure 1 shows a piece of rectangular paper. It is cut along the dotted line into two shapes. These two shapes are then put together to form a trapezium, as shown in Figure 2.

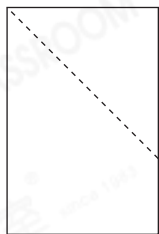


Figure 1

圖一

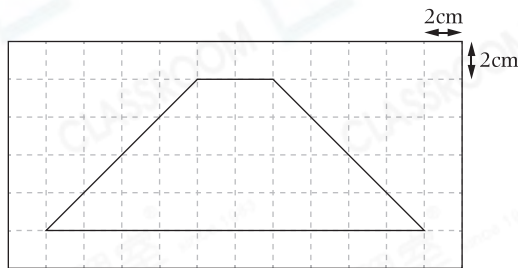


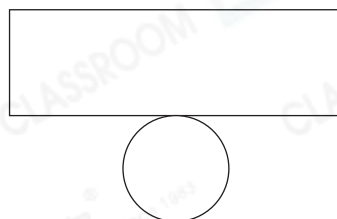
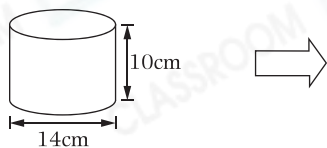
Figure 2

圖二

35. 圖一是一張長方形卡紙，把它沿虛線剪下，分割出兩個圖形。利用這兩個分割出來的圖形，可拼合成一個梯形，如圖二所示。

- (a) The side of each small square is 2cm. What is the area of the trapezium? [4 marks]
- (b) On the answer sheet, draw a straight line to show how these two shapes are put together to form the trapezium, as shown in Figure 2. [2 marks]

- (a) 每個小正方形的邊長是2cm，這個梯形的面積是多少？[4分]
- (b) 在答題紙上加上直線，以表示如何將這兩個分割出來的圖形拼合成如圖二所示的梯形。 [2分]

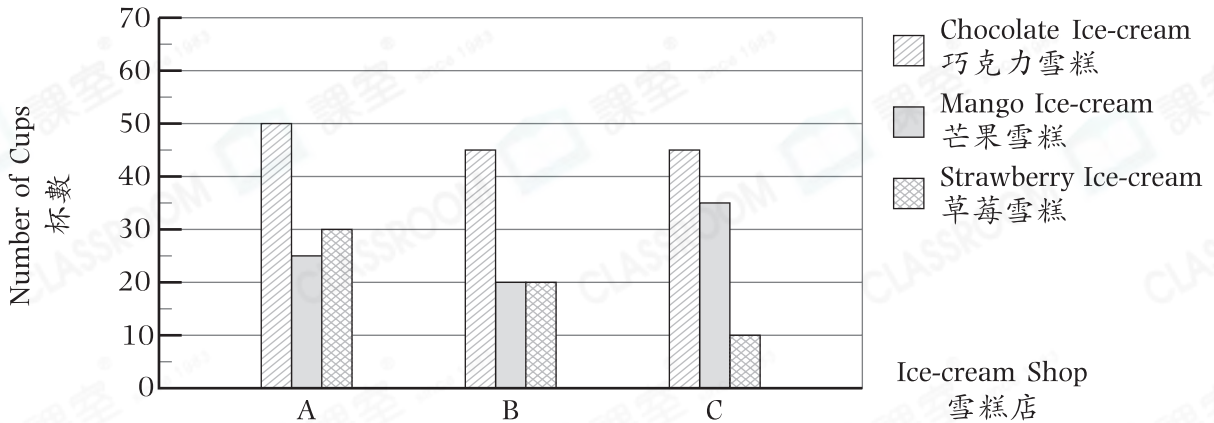


36. A cylindrical cardboard box without lid is unfolded, as shown above. What is the area of the cardboard? (Take π as $\frac{22}{7}$) [4 marks]

36. 如上圖所示，將一個無蓋圓柱卡紙盒展開。卡紙的面積是多少？(取 π 為 $\frac{22}{7}$) [4分]

Sales of Ice-cream

雪糕的銷量



37. The above chart shows the sales of ice-cream in three ice-cream shops yesterday.

(a) The table below shows the prices of ice-cream.

37. 上圖是三間雪糕店昨天售出雪糕的情況。

(a) 下表顯示各款雪糕的售價。

	Chocolate Ice-cream 巧克力雪糕	Mango Ice-cream 芒果雪糕	Strawberry Ice-cream 草莓雪糕
Price (per cup) 售價(每杯)	\$12	\$10	\$11

What percentage of the total income did Shop C get from selling the strawberry ice-cream yesterday? [4 marks]

(b) Yesterday, Shop D sold 40 cups of chocolate ice-cream, 30 cups of mango ice-cream and 15 cups of strawberry ice-cream. Draw the bars representing the sales of Shop D on the answer sheet. [4 marks]

C店昨天售出草莓雪糕的收入，佔總收入的百分之幾？ [4分]

(b) D店昨天售出40杯巧克力雪糕、30杯芒果雪糕和15杯草莓雪糕。在答題紙上，畫出代表D店銷售量的棒。 [4分]

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One Mathematics Mock Paper 4

中一入學前數學科模擬試卷(四)

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	Algebra 代數
Section A 甲部	Item 題目	1-14	15-19	20-25	26-28	29-30
	Marks 分數					
Section B 乙部	31(a)					
	31(b)					
	32(a)					
	32(b)					
	33					
	34					
	35(a)					
	35(b)					
	36					
	37(a)					
37(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)	4	<input type="text"/>
31(b)	4	<input type="text"/>
32(a) A child's fee was _____ % of an adult's fee. 每位小童的收費是每位成人的 _____ %。	2	<input type="text"/>
32(b)	4	<input type="text"/>

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轉下頁續答

Marks
估分

Marks
得分

33

4

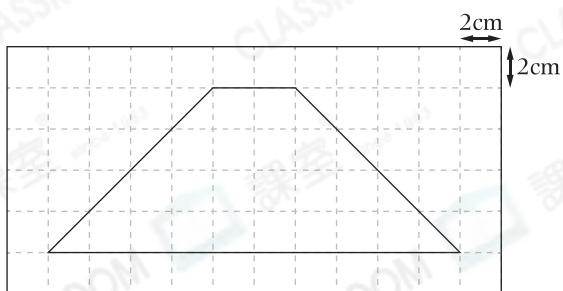
34

4

35(a)

4

35(b)



2

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Marks
佔分

Marks
得分

36

4

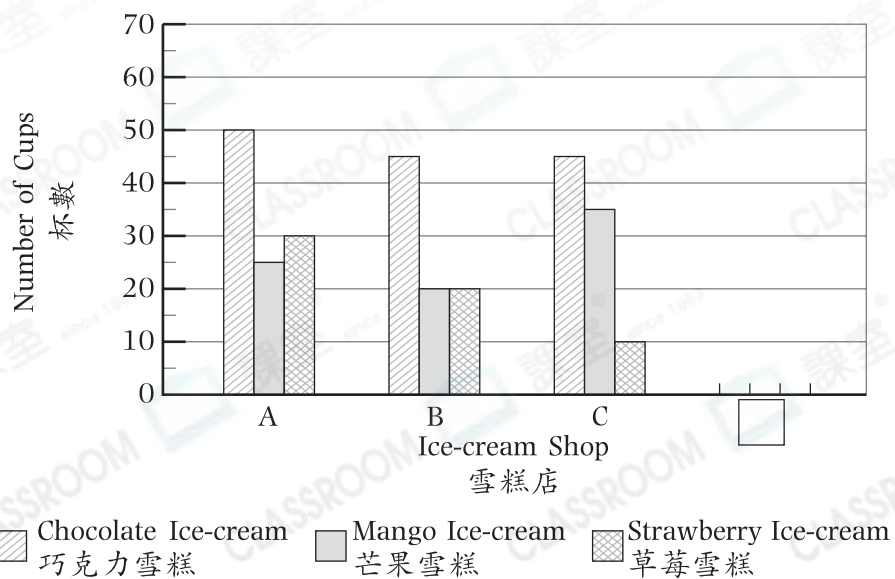
37(a)

4

37(b)

Sales of Ice-cream

雪糕的銷量



4

END
完