

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One

中一入學前

Mathematics

數學

Mock Paper 1

模擬試卷(一)

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. All factors of R are 1, 7, 49 and R , which of the following is a multiple of R ?

- A. 42
- B. 98
- C. 245
- D. 686

1. R 的所有因數是1、7、49和 R ，以下哪一個是 R 的倍數？

- A. 42
- B. 98
- C. 245
- D. 686

2. Which of the following has the largest value?

- A. $6 + 0.6 + 0.06$
- B. $0.6 + 6.06 + 6.6$
- C. $0.6 + 6.6 + 0.66$
- D. $0.06 + 6 + 0.66$

2. 下列哪一項的值最大？

- A. $6 + 0.6 + 0.06$
- B. $0.6 + 6.06 + 6.6$
- C. $0.6 + 6.6 + 0.66$
- D. $0.06 + 6 + 0.66$

3. Among the common multiples of 12 and 16, which one is the nearest to 100?

- A. 4
- B. 48
- C. 96
- D. 108

3. 在12和16的公倍數中，哪一個最接近100？

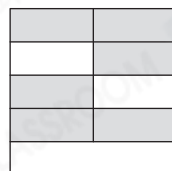
- A. 4
- B. 48
- C. 96
- D. 108

4. The fifth common multiple of two numbers is 225. Which of the following groups of numbers may be these two numbers?

- A. 9, 15
- B. 3, 15
- C. 5, 7
- D. 5, 25

4. 兩個數的第五個公倍數是225。以下哪一組數可能是這兩個數？

- A. 9、15
- B. 3、15
- C. 5、7
- D. 5、25



5. If each large square represents 1, what value does the shaded part represent?

- A. 1.8
- B. 1.75
- C. 1.6
- D. 0.6

5. 如果每個大正方形代表1，上圖陰影部分代表的值是多少？

- A. 1.8
- B. 1.75
- C. 1.6
- D. 0.6

6. A bag of beans weighs $2\frac{4}{25}$ kg. What is the weight of $1\frac{2}{3}$ bags of beans?

- A. $2\frac{8}{75}$ kg
- B. $2\frac{62}{75}$ kg
- C. $3\frac{3}{5}$ kg
- D. $3\frac{62}{75}$ kg

6. 一袋豆重 $2\frac{4}{25}$ kg， $1\frac{2}{3}$ 袋豆重多少？

- A. $2\frac{8}{75}$ kg
- B. $2\frac{62}{75}$ kg
- C. $3\frac{3}{5}$ kg
- D. $3\frac{62}{75}$ kg

7. Which of the following fractions has the largest value?

- A. $\frac{19}{3}$
- B. $6\frac{4}{15}$
- C. $\frac{32}{5}$
- D. $\frac{7}{8}$

7. 下列哪一個分數的值最大？

- A. $\frac{19}{3}$
- B. $6\frac{4}{15}$
- C. $\frac{32}{5}$
- D. $\frac{7}{8}$

8. Wilson spent $1\frac{1}{6}$ hours to finish the homework. He used $\frac{3}{10}$ hour less than the time that Winnie spent. How many hours did Winnie spend to finish the homework?

- A. $\frac{1}{5}$ hour
- B. $\frac{7}{15}$ hour
- C. $\frac{13}{15}$ hour
- D. $1\frac{7}{15}$ hours

8. 偉明用了 $1\frac{1}{6}$ 小時做家課，他比韻妮少用 $\frac{3}{10}$ 小時。韻妮做家課用了多少小時？

- A. $\frac{1}{5}$ 小時
- B. $\frac{7}{15}$ 小時
- C. $\frac{13}{15}$ 小時
- D. $1\frac{7}{15}$ 小時

9. Mr Lee had $2\frac{7}{10}$ L of pear juice and $1\frac{1}{2}$ L of mango juice. He used $1\frac{4}{5}$ L of the juice to make a special drink. How much juice was left?

- A. 1L
- B. $1\frac{1}{5}$ L
- C. $1\frac{9}{10}$ L
- D. $2\frac{2}{5}$ L

9. 李先生有 $2\frac{7}{10}$ L 雪梨汁和 $1\frac{1}{2}$ L 芒果汁。他用了 $1\frac{4}{5}$ L 果汁來調製特飲，還餘果汁多少？

- A. 1L
- B. $1\frac{1}{5}$ L
- C. $1\frac{9}{10}$ L
- D. $2\frac{2}{5}$ L

10. Flowerpots are placed every $\frac{4}{5}$ m from one end of the school corridor to the other end. There are 31 flowerpots in total. What is the length of the corridor?

- A. 24m
- B. $24\frac{2}{5}$ m
- C. $24\frac{4}{5}$ m
- D. 28m

10. 由學校走廊的盡頭每隔 $\frac{4}{5}$ m 擺放一個花盆至另一盡頭，剛好擺放了 31 個。走廊長多少？

- A. 24m
- B. $24\frac{2}{5}$ m
- C. $24\frac{4}{5}$ m
- D. 28m

11. A bag of fruits weighs 730g. There are $250\frac{3}{5}$ g of grapes, $150\frac{1}{2}$ g of cherries and the rest are litchis. What is the weight of litchis?

- A. $220\frac{1}{10}$ g
- B. $328\frac{9}{10}$ g
- C. $479\frac{2}{5}$ g
- D. $579\frac{1}{2}$ g

11. 一袋 730g 的水果，葡萄重 $250\frac{3}{5}$ g，車厘子重 $150\frac{1}{2}$ g，其餘的都是荔枝。荔枝重多少？

- A. $220\frac{1}{10}$ g
- B. $328\frac{9}{10}$ g
- C. $479\frac{2}{5}$ g
- D. $579\frac{1}{2}$ g

12. David has 30 \$2 and \$10 coins altogether. They are worth \$212. If David has 8 more \$10 coins than \$2 coins, how many \$10 coins does he have?

- A. 9
- B. 11
- C. 19
- D. 27

12. 智達有 \$2 和 \$10 硬幣共 30 個，它們總值 \$212。如果智達的 \$10 硬幣比 \$2 的多 8 個，他有 \$10 硬幣多少個？

- A. 9
- B. 11
- C. 19
- D. 27

13. The selling price of a house is \$8 000 000 when corrected to the nearest million and \$7 500 000 when corrected to the nearest hundred thousand. Which of the following could be the possible selling price of the house?

- A. \$7 604 000
- B. \$7 551 000
- C. \$7 526 000
- D. \$7 493 000

13. 某村屋的售價取近似值至百萬位後為 \$8 000 000，以及取近似值至十萬位後為 \$7 500 000。以下哪一項可能是該村屋的售價？

- A. \$7 604 000
- B. \$7 551 000
- C. \$7 526 000
- D. \$7 493 000

14. Ming stood facing the sun at sunset. What direction did he face after he turned three right angles in an anticlockwise direction?

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

14. 日落時，志明面向太陽，他以逆時針方向轉了三個直角後，他面向哪一方？

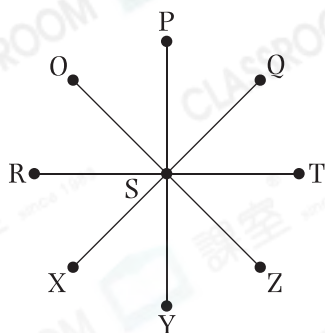
- A. 東
- B. 南
- C. 西
- D. 北

15. A square is cut into two figures of the same size and same shape. Which of the following shapes cannot be obtained?

- A. isosceles triangle
- B. trapezium
- C. rectangle
- D. equilateral triangle

15. 把一個正方形分割成兩個大小和形狀相同的圖形，以下哪種圖形 不能 分割得到？

- A. 等腰三角形
- B. 梯形
- C. 長方形
- D. 等邊三角形



16. If O is northeast of Z, what direction is Q from X?

- A. southeast
- B. north
- C. southwest
- D. south

16. 如果O在Z的東北方，Q在X的哪一方？

- A. 東南
- B. 北
- C. 西南
- D. 南

17. Which of the following statements must be correct?

- I. The four angles of a rhombus are equal.
- II. All squares are rectangles.
- III. At least one angle of a parallelogram must be a right angle.

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

17. 以下哪項/些描述是必定正確的？

- I. 菱形的四個角是相等的。
- II. 所有正方形都是長方形。
- III. 平行四邊形最少有一個直角。

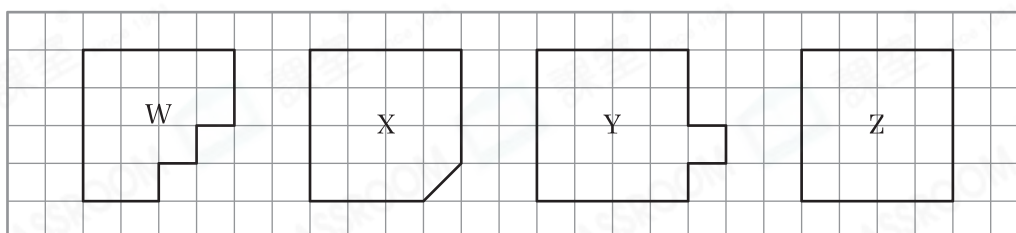
- A. 只有I
- B. 只有II
- C. 只有I及II
- D. 只有I及III

18. Which of the following may be rhombus as base?

- A. cylinder
- B. triangular prism
- C. rectangular prism
- D. pentagonal prism

18. 下列哪一個立體圖形的底可能是菱形？

- A. 圓柱
- B. 三角柱
- C. 四角柱
- D. 五角柱



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

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

19. 以上哪個圖形的周界是最短的？

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



20. What is the area of the above polygon?

- A. 80cm^2
- B. 85cm^2
- C. 100cm^2
- D. 120cm^2

20. 以上多邊形的面積是多少？

- A. 80cm^2
- B. 85cm^2
- C. 100cm^2
- D. 120cm^2



21. The perimeter of the above parallelogram is 62cm. What is its area?

- A. 12cm^2
- B. 120cm^2
- C. 190cm^2
- D. 500cm^2

21. 以上平行四邊形的周界是 62cm，它的面積是多少？

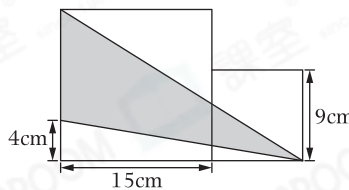
- A. 12cm^2
- B. 120cm^2
- C. 190cm^2
- D. 500cm^2

22. $\frac{3}{8}$ of the area is cut out from a square of side 4cm. What is the area of the cut-out part?

- A. 6cm^2
- B. 16cm^2
- C. 18cm^2
- D. 24cm^2

22. 從邊長為 4cm 的正方形中剪出其面積的 $\frac{3}{8}$ ，剪去部分的面積是多少？

- A. 6cm^2
- B. 16cm^2
- C. 18cm^2
- D. 24cm^2

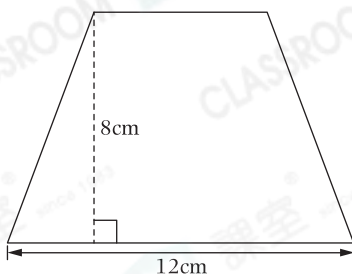


23. The above figure shows two squares of sides 15cm and 9cm. What is the area of the shaded part?

- A. 36cm^2
- B. 45cm^2
- C. 120cm^2
- D. 132cm^2

23. 上圖有兩個正方形，邊長分別為 15cm 和 9cm，陰影部分的面積是多少？

- A. 36cm^2
- B. 45cm^2
- C. 120cm^2
- D. 132cm^2

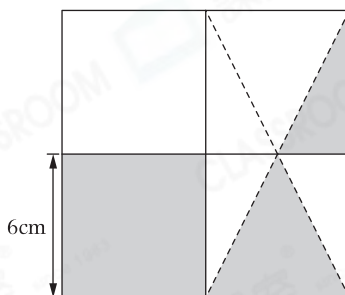


24. The above figure is a trapezium. The length of the upper base is half of that of the lower base. What is the area of the trapezium?

- A. 72cm^2
- B. 144cm^2
- C. 154cm^2
- D. 288cm^2

24. 上圖是一個梯形，它的上底是下底的一半，梯形的面積是多少？

- A. 72cm^2
- B. 144cm^2
- C. 154cm^2
- D. 288cm^2



25. The above figure is formed by 4 squares of the same size. What is the area of the shaded part?

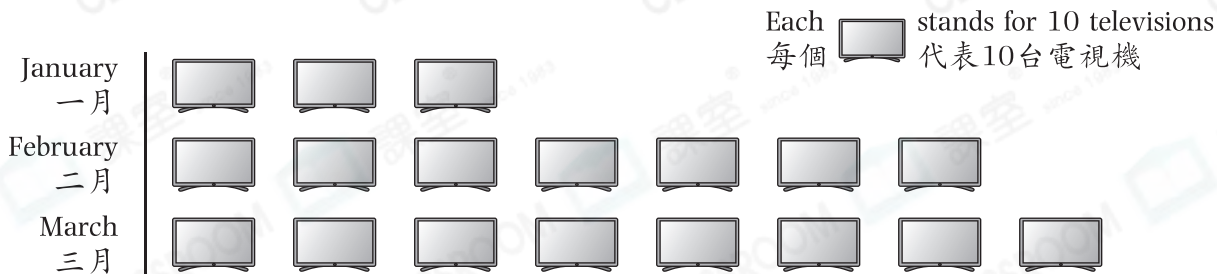
- A. 144cm^2
- B. 63cm^2
- C. 54cm^2
- D. 36cm^2

25. 上圖是由四個大小相同的正方形組成，陰影部分的面積是多少？

- A. 144cm^2
- B. 63cm^2
- C. 54cm^2
- D. 36cm^2

Sales of Televisions in an Electrical Appliance Shop in the First Quarter

某電器店第一季電視機的銷量



26. According to the above graph, what fraction of the sales of televisions in the first quarter was that in January?

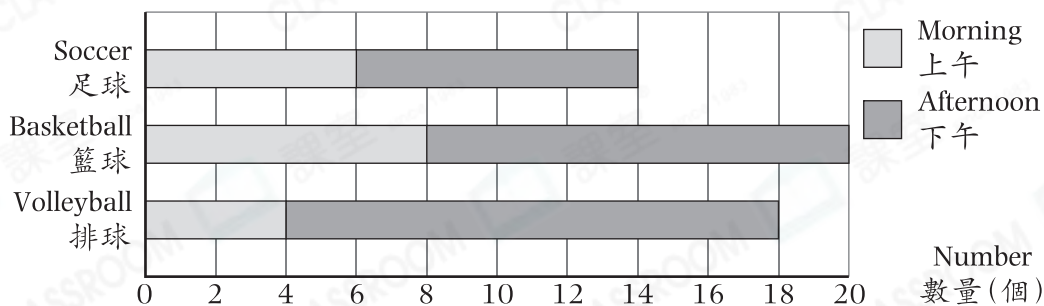
- A. $\frac{3}{8}$
- B. $\frac{1}{3}$
- C. $\frac{1}{6}$
- D. $\frac{1}{18}$

26. 根據上圖，一月的電視機銷量是第一季的幾分之幾？

- A. $\frac{3}{8}$
- B. $\frac{1}{3}$
- C. $\frac{1}{6}$
- D. $\frac{1}{18}$

Sales of Balls in the Sports Store Yesterday

體育用品店昨天球類的銷量



27. What was the difference between the sales of soccer and volleyball in the afternoon?

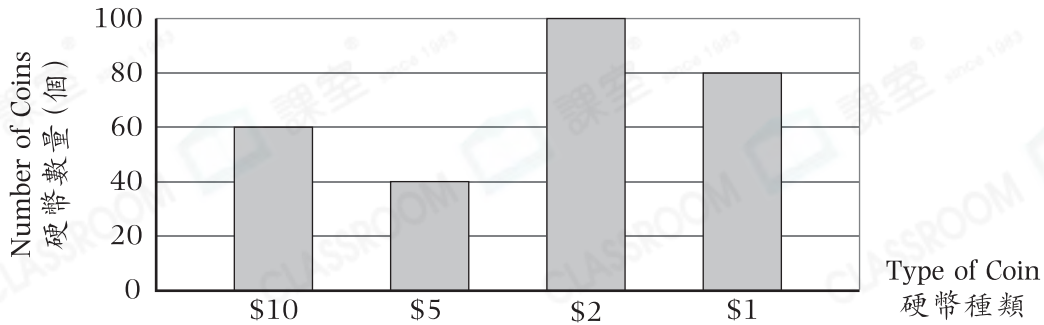
- A. 6
- B. 4
- C. 3
- D. 2

27. 下午足球的銷量和排球的相差多少個？

- A. 6
- B. 4
- C. 3
- D. 2

Number of Coins Collected by Primary 5 in a Fundraising Event

五年級在籌款活動中所籌得的硬幣數量



28. How much did Primary 5 collect?

- A. \$280
- B. \$880
- C. \$1000
- D. \$1080

28. 五年級共籌得款項多少？

- A. \$280
- B. \$880
- C. \$1000
- D. \$1080

29. Which of the following is an algebraic expression?

- A. $4.5 + 13.5 - 3$
- B. $8\frac{1}{4} - 5\frac{1}{8} = 3\frac{1}{8}$
- C. $y + 7$
- D. $5 + 8 > 10$

29. 下列哪一項是代數式？

- A. $4.5 + 13.5 - 3$
- B. $8\frac{1}{4} - 5\frac{1}{8} = 3\frac{1}{8}$
- C. $y + 7$
- D. $5 + 8 > 10$

30. The price of a cup of tea was \$12. Amy paid \$ a to buy two cups of tea. What should be the change?

- A. $\$(12 - a)$
- B. $\$(24 - a)$
- C. $\$(a - 12)$
- D. $\$(a - 24)$

30. 一杯茶售 \$12，艾美付 \$ a 買兩杯茶，應找回多少？

- A. $\$(12 - a)$
- B. $\$(24 - a)$
- C. $\$(a - 12)$
- D. $\$(a - 24)$

End of Section A

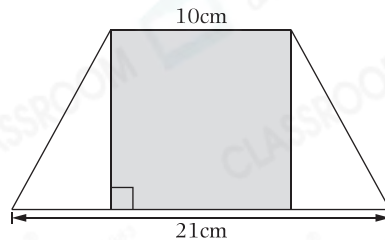
甲部完

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. The above figure is a trapezium. If the area of the shaded part is 100cm^2 ,

- (a) what is the height of the trapezium? (Give the answer only) [2 marks]
- (b) What is the area of the white part? [4 marks]

31. 上圖是一個梯形，如果陰影部分的面積是 100cm^2 ，

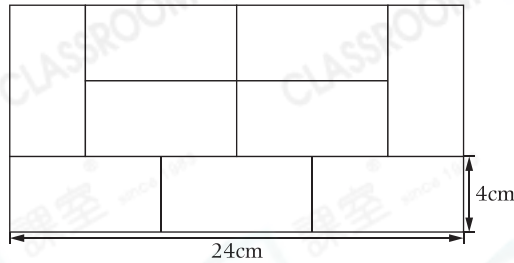
- (a) 梯形的高是多少？(只須寫出答案) [2分]
- (b) 白色部分的面積是多少？ [4分]

32. Half dozen sausages cost \$24.
12 bottles of milk cost \$60.

- (a) How much is a bottle of milk? (Give the answer only) [2 marks]
- (b) Karen would like to buy a dozen sausages and 4 bottles of milk. How much should she pay? [4 marks]

32. 半打香腸售\$24，12瓶鮮奶售\$60。

- (a) 每瓶鮮奶價值多少？(只須寫出答案) [2分]
- (b) 家欣買一打香腸和4瓶鮮奶，共應付款多少？ [4分]



33. (a) The above figure is formed by 9 rectangles of the same size and same shape. What is the perimeter of each rectangle? (Give the answer only) [2 marks]
- (b) What is the area of the whole figure? (Give the answer only) [2 marks]

33. (a) 上圖由9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]
- (b) 整個圖形的面積是多少？(只須寫出答案) [2分]

34. A flower shop bought 720 flowers. $\frac{3}{8}$ of the flowers were lilies, and $\frac{1}{6}$ were peonies. The rest were roses.
- (a) What fraction of the flowers were roses? [4 marks]
- (b) If the price of each rose was \$8, how much did the shop get from selling all the roses? [4 marks]

34. 花店購入720枝鮮花，其中 $\frac{3}{8}$ 是百合花， $\frac{1}{6}$ 是牡丹花，其餘的是玫瑰花。
- (a) 玫瑰花佔全部鮮花的幾分之幾？ [4分]
- (b) 如果每枝玫瑰花的售價是\$8，花店售出全部玫瑰花的收入是多少？ [4分]

Admission Fees to Dolphin Show 海豚表演入場費

Adult 成人	\$180
Senior Citizen (aged 65 or above) 長者(65歲或以上)	\$108
Child (aged 3 to 12) 兒童(3歲至12歲)	\$54

* Free admission for age under 3

* 3歲以下免費

35. (a) What fraction of the admission fee for an adult is that for a senior citizen? (Give the answer only) [2 marks]

(b) Kate's parents took her and her grandfather to watch Dolphin Show. Grandfather was 67 years old and Kate was 10 years old. What was their total admission fee? [4 marks]

35. (a) 長者的入場費是成人的幾分之幾? (只須寫出答案) [2分]

(b) 子琳的父母帶同子琳和祖父一同前去觀看海豚表演。子琳的祖父今年67歲，子琳今年10歲，他們共須付入場費多少? [4分]

36. Alan is x years old. Lily's age is twice as Alan's. Kit is 5 years younger than Alan.

(a) How old is Lily? (Give the answer only and express the answer in terms of x) [2 marks]

(b) How old will Kit be 3 years later? (Give the answer only and express the answer in terms of x) [2 marks]

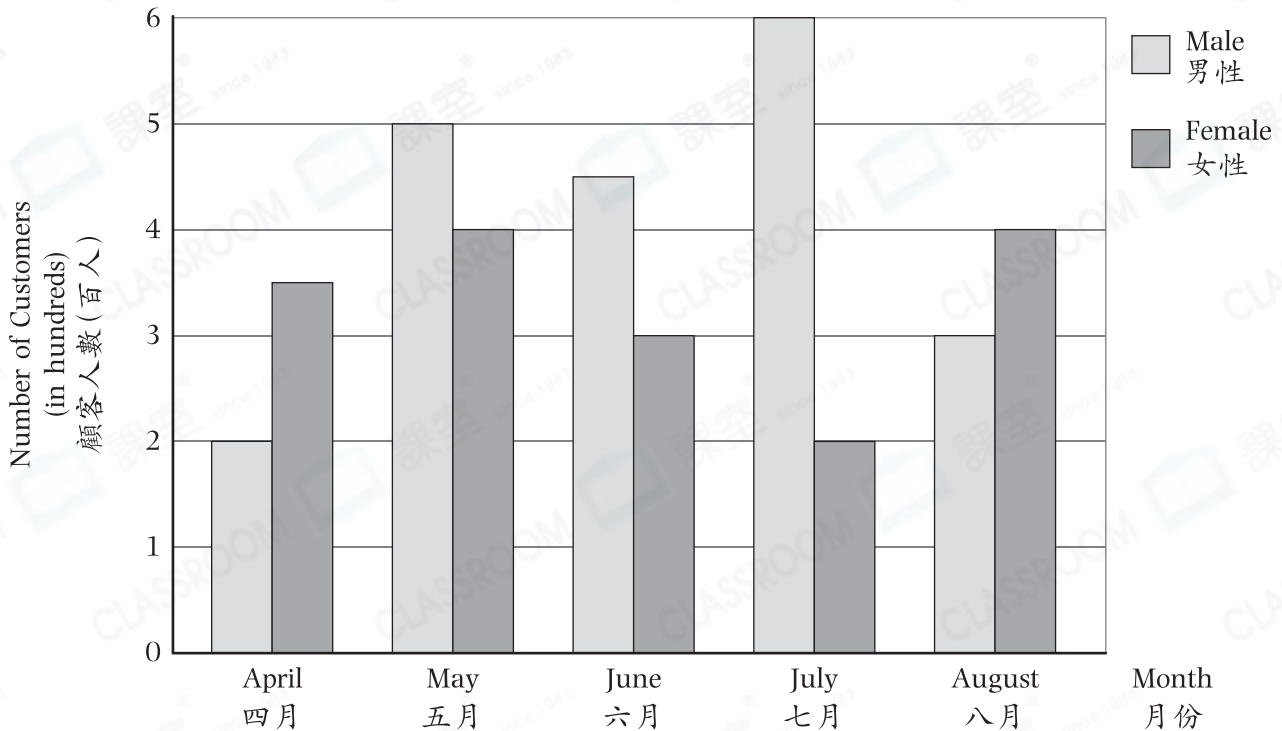
36. 立倫今年 x 歲，立美的年齡是立倫的兩倍。海薇比立倫小5歲。

(a) 立美的年齡是多少? (只須寫出答案，答案以 x 表示) [2分]

(b) 三年後海薇的年齡是多少? (只須寫出答案，答案以 x 表示) [2分]

Number of Customers of the Bookstore in the Past Five Months

書局過去五個月的顧客人數



37. (a) How many more customers were there in May than in April? (Give the answer only) [2 marks]

(b) How many months were there in the past five months with the number of customers equal to or more than 800? (Give the answer only) [2 marks]

(c) If the average consumption of each customer was \$100, how much did the bookstore get in the second quarter? (Give the answer only) [2 marks]

37. (a) 五月的顧客人數比四月的多多少人? (只須寫出答案) [2分]

(b) 在過去五個月，共有多少個月的顧客人數達800人或以上? (只須寫出答案) [2分]

(c) 如果每位顧客平均消費\$100，書局第二季度的收入是多少? (只須寫出答案) [2分]

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One Mathematics Mock Paper 1

中一入學前數學科模擬試卷(一)

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	1-13	14-18	19-25	26-28	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)					
	35(a)					
	35(b)					
	36(a)					
	36(b)					
	37(a)					
37(b)						
37(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)	The height of the trapezium is _____. (Give your answer with a unit) 梯形的高是_____。(答案須寫上單位)	2	<input type="text"/>
31(b)		4	<input type="text"/>
32(a)	A bottle of milk costs \$ _____. 每瓶鮮奶價值 \$ _____。	2	<input type="text"/>
32(b)		4	<input type="text"/>

Go On To Next Page
轉下頁續答

		Marks 佔分	Marks 得分
33(a)	The perimeter of each rectangle is _____ cm. 每個長方形的周界是_____ cm。	2	<input type="text"/>
33(b)	The area of the whole figure is _____ cm ² . 整個圖形的面積是_____ cm ² 。	2	<input type="text"/>
34(a)		4	<input type="text"/>
34(b)		4	<input type="text"/>
35(a)	The admission fee for a senior citizen is _____ of that of an adult. 長者的入場費是成人的_____。	2	<input type="text"/>

Go On To Next Page
轉下頁續答

Marks
估分

Marks
得分

35(b)		4	<input type="text"/>
36(a) Lily is _____ years old. 立美的年齡是_____歲。		2	<input type="text"/>
36(b) Kit will be _____ years old 3 years later. 三年後 <u>海薇</u> 的年齡是_____歲。		2	<input type="text"/>
37(a) There were _____ more customers in May than in April. 五月的顧客人數比四月的多_____人。		2	<input type="text"/>
37(b) There was/were _____ month(s) with the number of customers equal to or more than 800. 共有_____個月的顧客人數達800人或以上。		2	<input type="text"/>
37(c) The bookstore got \$ _____ in the second quarter. 書局第二季度的收入是\$ _____。		2	<input type="text"/>

END
完