

Mathematics**數學**

Mock Paper 5

模擬試卷(五)

六年級全學年

題號	學習重點	範疇	題號	學習重點	範疇
1	倍數和因數(4上)	數	24	不規則立體的體積(6上)	度量
2	整除性(4上)		25	不規則立體的體積(6上)	
3	分數和小數的大小比較(6上)		26	速率(6下)	
4	小數減法(4下)		27	平均數(6上)	數據處理
5	分數四則混合計算(5下)		28	折線圖(6下)	
6	分數四則混合計算(5下)		29	圓形圖(6下)	代數
7	小數的認識(4下)		30	簡易方程(6下)	
8	小數加減混合計算(4下)		31(a)	軸對稱(6下)	圖形與空間
9	小數減法(4下)		31(b)	摺紙圖樣(5下)	
10	三位數(2上)、整除性(4上)、公因數(4上)		31(c)	體積(5下)	度量
11	整數四則混合計算(4下)		32(a)	分數加法(5上)	數
12	百分數的應用(6上)		32(b)	分數四則混合計算(5下)	
13	百分數的應用(6上)		33	簡易方程(6下)	代數
14	四邊形(4上)	圖形與空間	34(a)	八個方向(4上)	圖形與空間
15	八個方向(4上)		34(b)	面積(4下)、立體圖形(5下)	
16	圓的認識(5下)		34(c)	多位數(5上)	數
17	軸對稱(6下)	35(a)	整數除法(3上)		
18	周界(4下)	度量	35(b)	整數四則混合計算(4下)	數據處理
19	圓面積(6上)		36(a)	棒形圖(4上)	
20	面積(5上)		36(b)	棒形圖(4上)、平均數(6上)	
21	圓周(6上)		36(c)	小數四則混合計算(6上)	數
22	面積(5上)				
23	立體圖形(5下)、體積(5下)				

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。

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. The first seven multiples of M are:

$M, 16, 24, 32, 40, 48, 56$

Which of the following is not a factor of M ?

- A. 1
- B. 2
- C. 4
- D. 6

1. M 的首七個倍數是：

$M, 16, 24, 32, 40, 48, 56$

下列哪一個數不是 M 的因數？

- A. 1
- B. 2
- C. 4
- D. 6

2. If P is divisible by 2 and Q is divisible by 3, which of the following must be divisible by 6?

- I. $P \times Q$
 - II. $P + Q$
 - III. $9 \times P$
- A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III

2. 如果 P 能被 2 整除， Q 能被 3 整除，以下哪項必定能被 6 整除？

- I. $P \times Q$
 - II. $P + Q$
 - III. $9 \times P$
- A. 只有 I 及 II
 - B. 只有 I 及 III
 - C. 只有 II 及 III
 - D. I、II 及 III

3. Which of the following numbers is closest to 1?

- A. 0.95
- B. $1\frac{1}{10}$
- C. $\frac{4}{5}$
- D. 1.06

3. 下列哪一個數的值最接近1?

- A. 0.95
- B. $1\frac{1}{10}$
- C. $\frac{4}{5}$
- D. 1.06

4. The body temperature of Mary is 36.7°C . A nurse wrote it as 37.6°C by mistake. What is the difference in value between the two '6's?

- A. 0.1
- B. 0.54
- C. 0.9
- D. 5.4

4. 文麗的體溫是 36.7°C 。護士卻誤寫成 37.6°C ，兩個「6」的值相差多少?

- A. 0.1
- B. 0.54
- C. 0.9
- D. 5.4

5. There are 240 staff members in a company. $\frac{3}{8}$ of them are females and $\frac{1}{5}$ of the females are married. How many female staff members are not married?

- A. 90
- B. 72
- C. 30
- D. 18

5. 公司有240名職員，其中女職員佔 $\frac{3}{8}$ ，而女職員中已婚的佔 $\frac{1}{5}$ ，未婚的女職員有多少名?

- A. 90
- B. 72
- C. 30
- D. 18

6. There was $1\frac{1}{5}$ kg of butter. My mother used $\frac{1}{2}$ kg. How much more should she use in order to reduce the butter to half of the original amount?

A. $\frac{7}{10}$ kg

B. $\frac{1}{2}$ kg

6. 一塊牛油原重 $1\frac{1}{5}$ kg，媽媽用了 $\frac{1}{2}$ kg。她應再用多少，才能使牛油減至原來的一半？

C. $\frac{1}{10}$ kg

D. $\frac{1}{20}$ kg

7. Jason measured the weight of a dog and the reading of the measuring tool was 10.20kg. For the reading 10.20, which place values of '0' can be deleted?

I. units

II. tenths

III. hundredths

A. I only

B. II only

C. III only

D. I and III only

7. 進安量度一隻狗的重量，該量度工具顯示其讀數為10.20kg。在10.20這個讀數中，哪些位值的「0」可被刪掉？

I. 個位

II. 十分位

III. 百分位

A. 只有I

B. 只有II

C. 只有III

D. 只有I及III

8. There was 1.6kg of flour in Tin X originally. Then Emily put 1.25kg of flour into Tin X. If there was 2.97kg of flour in Tin Y, what is the difference of flour in the two tins?

A. 0.12kg

B. 0.22kg

8. 罐子X原有1.6kg麵粉，美靜再把1.25kg麵粉放入罐子X。如果罐子Y有2.97kg麵粉，這兩個罐子內的麵粉相差多少？

C. 1.37kg

D. 2.26kg

Sunshine Stationery Shop

陽光文具店

Eraser 擦膠	\$5.50	Notebook 筆記簿	\$18.50
Pencil Box 筆盒	\$30.90	Ball Pen 原子筆	\$9.50

9. Eva picked out a notebook and a pencil box. When she was paying the bill with a \$100 note, the cashier told her that the pencil box was on sale and gave her \$60.6 change. How much was the pencil box cheaper?

- A. \$9.4
- B. \$10
- C. \$20.9
- D. \$50.6

9. 美雪選了一本筆記簿和一個筆盒，並以一張\$100鈔票付款。收銀員告訴她筆盒正以特價發售，因此找回\$60.6給她。筆盒的售價比原價便宜了多少？

- A. \$9.4
- B. \$10
- C. \$20.9
- D. \$50.6

10. 0, 3, 4 are used to form the smallest 3-digit number which is divisible by 5. Each number should not be used repeatedly. What is the H.C.F. of that 3-digit number and 80?

- A. 5
- B. 10
- C. 15
- D. 20

10. 用0、3和4組成一個最小的三位數，且該數能被5整除，每個數字不可重複使用。該三位數和80的H.C.F.是多少？

- A. 5
- B. 10
- C. 15
- D. 20

11. Mary has 30 coins of \$2 and \$5 altogether. They are worth \$99. If Mary has 4 fewer \$5 coins than \$2 coins, how many \$2 coins does she have?

- A. 13
- B. 15
- C. 17
- D. 26

11. 曉莉有 \$2 和 \$5 硬幣共 30 個，它們總值 \$99。如果曉莉的 \$5 硬幣比 \$2 硬幣少 4 個，她有 \$2 硬幣多少個？

- A. 13
- B. 15
- C. 17
- D. 26

12. A bucket contains 3.2L of water and has 68% space unfilled. What is the total capacity of the bucket?

- A. 32L
- B. 10L
- C. 4.7L
- D. 3L

12. 一個水桶內有水 3.2L，還剩 68% 的空間，該水桶的總容量是多少？

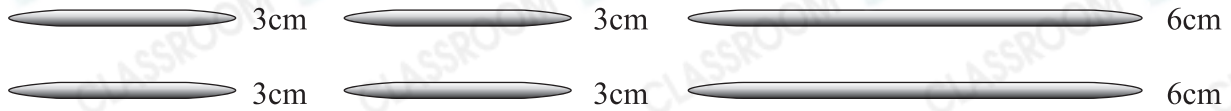
- A. 32L
- B. 10L
- C. 4.7L
- D. 3L

13. A flower shop purchased 250 red roses and some white roses. If the white roses were 20% less than red roses, how many roses were purchased?

- A. 200
- B. 300
- C. 450
- D. 550

13. 花店購入一些玫瑰，其中紅玫瑰有 250 枝，其餘的是白玫瑰。如果白玫瑰比紅玫瑰少 20%，花店共購入玫瑰多少枝？

- A. 200
- B. 300
- C. 450
- D. 550

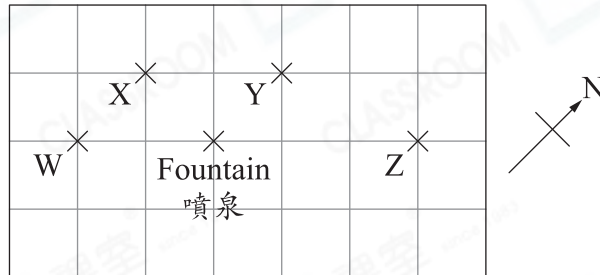


14. If all of the above six sticks are used together to form a quadrilateral, which of the following quadrilaterals can be formed?

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

14. 如果同時使用以上6枝竹籤拼砌一個四邊形，可以拼出以下哪些四邊形？

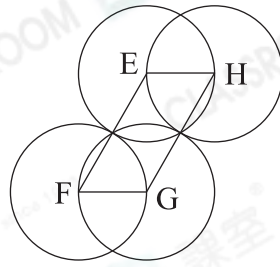
- I. 正方形
 - II. 菱形
 - III. 梯形
- A. 只有I及II
 - B. 只有I及III
 - C. 只有II及III
 - D. I、II及III



15. David went for a walk in a park. After walking for some time, he found that the fountain was southwest from him. What was his location at that time on the map?

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

15. 智偉在公園散步。行了一段時間後，他測得噴泉在他的西南方。他當時是在地圖中的哪一個位置？



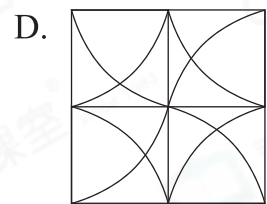
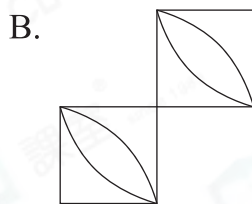
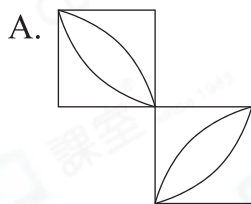
16. In the above figure, E, F, G and H are the centres of 4 circles of the same size. EFGH is a parallelogram. Its perimeter is 54cm. What is the diameter of a circle?

- A. 9cm
- B. 13.5cm
- C. 18cm
- D. 27cm

16. 上圖中，E、F、G和H是4個大小相同的圓的圓心，而EFGH是一個平行四邊形，它的周界是54cm。那麼一個圓的直徑是多少？

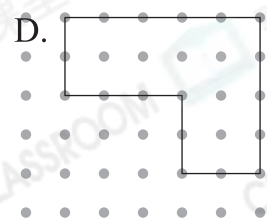
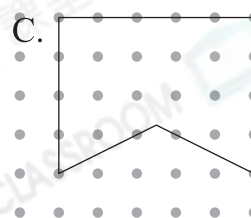
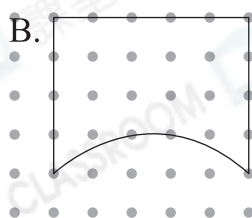
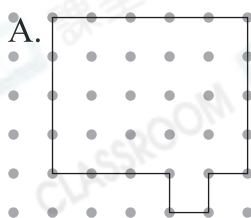
- A. 9cm
- B. 13.5cm
- C. 18cm
- D. 27cm

17. Which of the following figures has the most number of axes of symmetry?

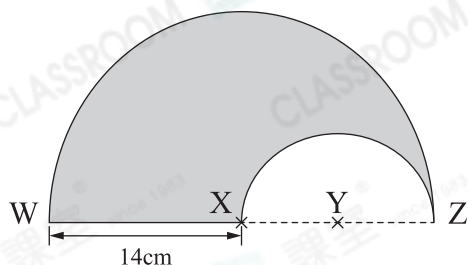


17. 下列哪一個圖形有最多條對稱軸？

18. Which of the following figures has the shortest perimeter?



18. 以下哪個圖形的周界是最短的？

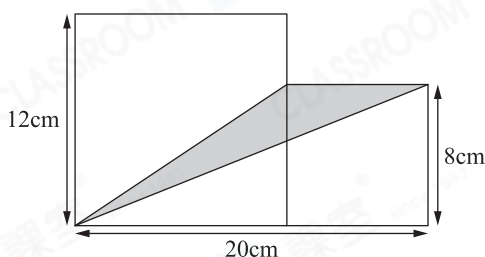


19. In the above figure, WXYZ is a straight line. X and Y are the centres of the two semi-circles respectively. What is the area of the shaded part? (Take π as $\frac{22}{7}$)

- A. 77cm^2
- B. 154cm^2
- C. 231cm^2
- D. 308cm^2

19. 上圖中，WXYZ 是一直線，X 和 Y 分別是兩個半圓的圓心，陰影部分的面積是多少？(取 π 為 $\frac{22}{7}$)

- A. 77cm^2
- B. 154cm^2
- C. 231cm^2
- D. 308cm^2

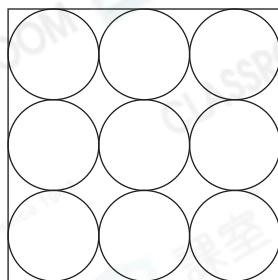


20. The above figure is formed by two squares of sides 12cm and 8cm. What is the area of the shaded part?

- A. 32cm^2
- B. 46cm^2
- C. 58cm^2
- D. 64cm^2

20. 上圖是由兩個邊長為 12cm 和 8cm 的正方形組成，陰影部分的面積是多少？

- A. 32cm^2
- B. 46cm^2
- C. 58cm^2
- D. 64cm^2

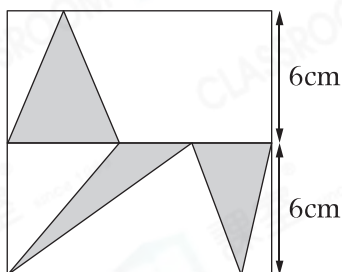


21. Bob fits 9 circles of the same size into a square, as shown above. If the total circumference of the 9 circles is 396cm, what is the length of a side of the square? (Take π as $\frac{22}{7}$)

- A. 14cm
- B. 42cm
- C. 44cm
- D. 56cm

21. 世輝把9個大小相同的圓放在一個正方形上，如上圖所示。如果這9個圓的圓周共長396cm，正方形的邊長是多少？(取 π 為 $\frac{22}{7}$)

- A. 14cm
- B. 42cm
- C. 44cm
- D. 56cm



22. In the above square, what is the area of the shaded part?

- A. 144cm^2
- B. 72cm^2
- C. 36cm^2
- D. 12cm^2

22. 在上圖的正方形中，陰影部分的面積是多少？

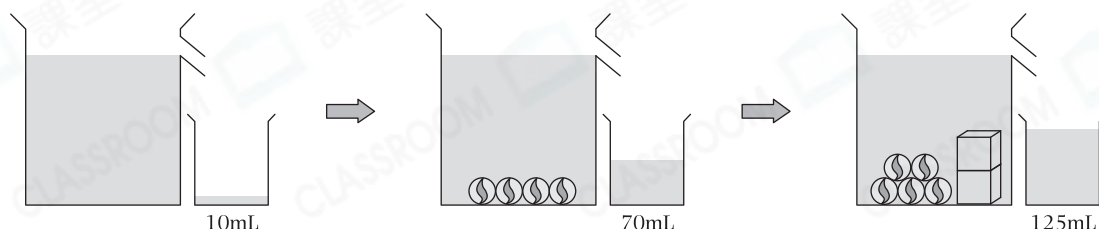
- A. 144cm^2
- B. 72cm^2
- C. 36cm^2
- D. 12cm^2

23. There are three cubes of the same size. If the total length of all the edges of them is 180cm, what is the volume of each cube?

- A. 5cm^3
- B. 25cm^3
- C. 60cm^3
- D. 125cm^3

23. 有三個大小相同的正方體，若它們所有稜的總長度是180cm，則每個正方體的體積是多少？

- A. 5cm^3
- B. 25cm^3
- C. 60cm^3
- D. 125cm^3



24. According to the above figure, what is the volume of a wooden cube?

- A. 55cm^3
- B. 27.5cm^3
- C. 20cm^3
- D. 15cm^3

24. 根據上圖，一塊正方體積木的體積是多少？

- A. 55cm^3
- B. 27.5cm^3
- C. 20cm^3
- D. 15cm^3

25. The capacity of a plastic box was 3000mL. $\frac{3}{4}$ of it was filled with water. After a mango was immersed in the water, 150mL of the water overflowed. What was the volume of the mango?

- A. 150cm³
- B. 600cm³
- C. 900cm³
- D. 2250cm³

25. 一個膠盒的容量是3000mL，盛載了 $\frac{3}{4}$ 盒水，把一個芒果完全放入水中，溢出水150mL，這個芒果的體積是多少？

- A. 150cm³
- B. 600cm³
- C. 900cm³
- D. 2250cm³

26. William went to school. He first walked 1.5km for 15 minutes. Then he rode a bicycle with three times of walking speed for 12km to the school. How long did he ride?

- A. 30 minutes
- B. 40 minutes
- C. 50 minutes
- D. 60 minutes

26. 明遠前往學校，他先用15分鐘行走了1.5km，再以步行速率的3倍騎單車12km到達學校。他騎單車所用的時間是多少？

- A. 30分鐘
- B. 40分鐘
- C. 50分鐘
- D. 60分鐘

27. Which of the following groups of numbers has the smallest average?

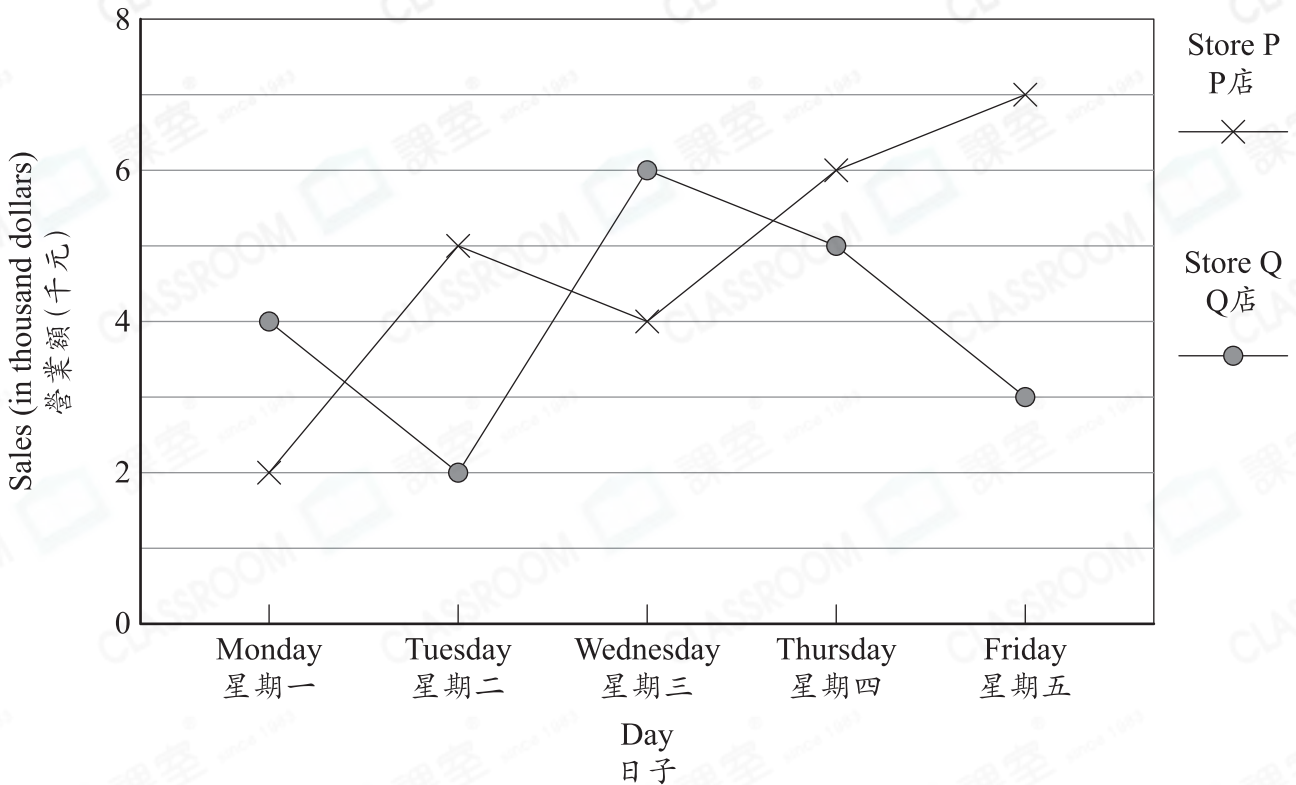
- A. 5.6, 60, 34
- B. 12, 31, 45, 52
- C. 0, 43, 68, 79
- D. 12.7, 20, 36

27. 下列哪一組數的平均值是最小？

- A. 5.6、60、34
- B. 12、31、45、52
- C. 0、43、68、79
- D. 12.7、20、36

The Sales of Two Stores Last Five Day

兩間店過去五天的營業額



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

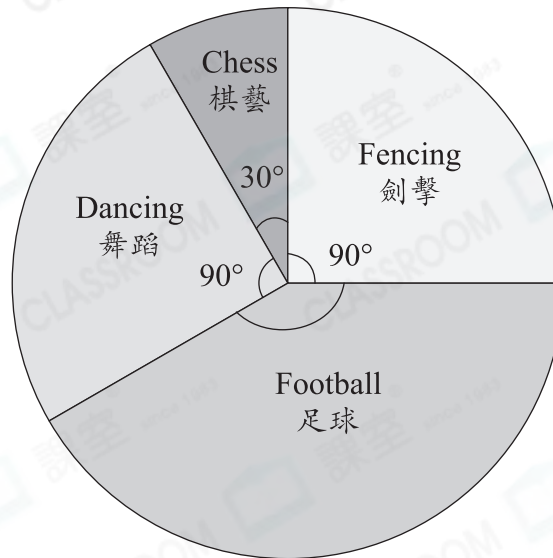
- A. The sales of Store Q was less than Store P on each day.
- B. The sales of Store P was \$2000 more than Store Q on Wednesday.
- C. The total sales of the two stores was \$11000 on Friday.
- D. The total sales of Store Q was more than Store P from Monday to Wednesday.

28. 根據上圖，以下哪一項是正確的？

- A. Q店每天的營業額都比P店少。
- B. 星期三P店營業額比Q店多\$2000。
- C. 兩間店在星期五的總營業額是\$11000。
- D. 星期一至三期間，Q店的總營業額比P店多。

Primary 6 Students in Different Interest Classes

六年級學生參加的興趣小組



29. The above graph shows Primary 6 students in different interest classes. If there were 14 students in the Chess class, how many students were there in the Football class?

- A. 70
- B. 84
- C. 150
- D. 168

29. 上圖顯示六年級學生參加的興趣小組。如果參加棋藝組的學生有14名，那麼參加足球組的學生有多少名？

- A. 70
- B. 84
- C. 150
- D. 168

30. If $2N + 3N = 33$, what is $N - 5$?

- A. 6.6
- B. 1.6
- C. 0.6
- D. 0.5

30. 如果 $2N + 3N = 33$ ，那麼 $N - 5$ 是多少？

- A. 6.6
- B. 1.6
- C. 0.6
- D. 0.5

End of Section A

甲部完

SECTION B (40 marks)

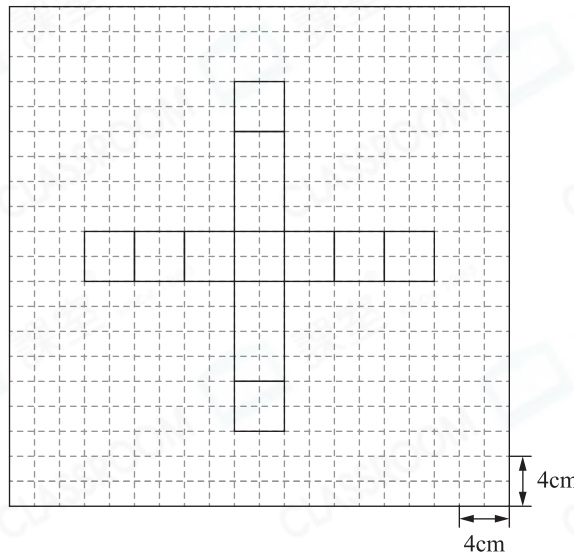
Working steps must be shown in answering questions in this section unless specified otherwise.

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 figure below is formed by 2 rectangles of the same size and 9 squares of the same size. Draw all axes of symmetry of the figure on the answer sheet. [2 marks]

- 31. (a)** 下面的圖形是由2個大小相同的長方形和9個大小相同的正方形組合而成的。在答題紙上畫出下面圖形的所有對稱軸。 [2分]



- (b)** If one quadrilateral is added, the figure becomes a net of a cuboid. Draw the required quadrilateral on the answer sheet. [2 marks]

- (b)** 如果在圖形上加上一個四邊形，它便成為一個長方體的摺紙圖樣。在答題紙上畫出所需的四邊形。 [2分]

- (c)** After folding the net in part (b) into a cuboid, what is its volume? (Give the answer only) [2 marks]

- (c)** 把(b)部分的摺紙圖樣摺成長方體後，它的體積是多少？(只須寫出答案) [2分]

32. There are 30 tourists on the coach. $\frac{1}{3}$ of the tourists are from Australia and $\frac{2}{5}$ of the tourists are from UK. Half of the remaining tourists are from Canada and the other half are from America.

(a) What fraction of the total tourists is from Australia and UK? (Give the answer only) [2 marks]

(b) How many tourists are from America? (Give the answer only) [2 marks]

32. 旅遊車上有30名遊客，其中 $\frac{1}{3}$ 來自澳洲， $\frac{2}{5}$ 來自英國，其餘的遊客，一半是來自加拿大，另一半則來自美國。

(a) 來自澳洲和英國的遊客佔全部遊客的幾分之幾？(只須寫出答案) [2分]

(b) 來自美國的遊客有多少名？(只須寫出答案) [2分]

33. The following table shows the fares of an ordinary ferry.

	Fare 票價
Adult 成人	\$20.20
Child (aged 12 or under) 小童(12歲或以下)	\$n

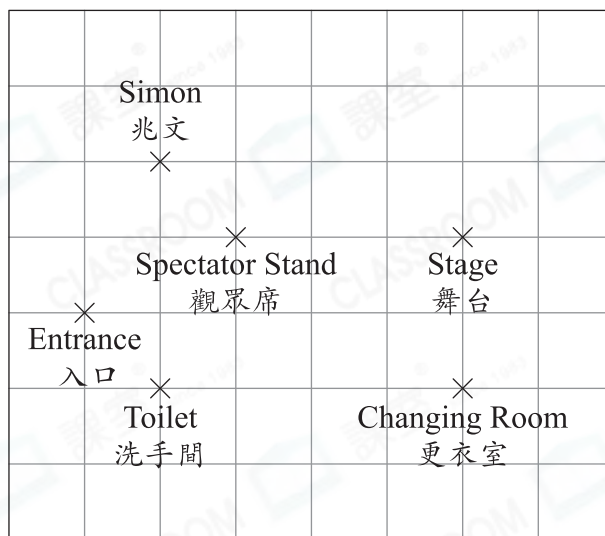
Yesterday was Cary's 10th birthday. She went to Cheung Chau with her parents and two younger brothers by ordinary ferry. They paid \$65.6 altogether for the ferry fares. What was the fare for a child? (Use equation to solve the problem and show your working) [4 marks]

33. 以下是普通渡輪的收費表：

昨天是家雯的10歲生日，她和爸爸媽媽及兩個弟弟一起乘渡輪到長洲遊玩，他們購買船票共付款\$65.6。小童的票價是多少？(須用方程列式計算) [4分]

34. The following is the floor plan of an outdoor concert.

34. 下圖是戶外音樂會會場的平面圖。

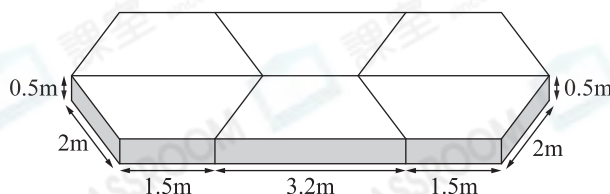


(a) The Spectator Stand was in the northwest of the Stage. Simon wanted to go to the Toilet. To get the shortest route, in which direction should he go? (Give the answer only) [2 marks]

(a) 舞台的西北方是觀眾席。兆文想到洗手間，他應往哪一個方向走，路程才是最短的？(只須寫出答案) [2分]

(b) The stage was 0.5m high. It was formed by 6 quadrilateral prisms of the same size and same shape. Three faces of the stage were painted in grey, as shown in the figure below. What was the total area of the grey part? [4 marks]

(b) 舞台高0.5m，它由六個形狀和大小相同的四角柱拼砌而成。在舞台的其中三個面塗上灰色，如下圖所示。灰色部分的總面積是多少？ [4分]



34. (c) The admission fee for the concert was \$100 per visitor. The number of visitors was 58764. How much did the concert get from the admission fees when corrected to the nearest million dollars? (Give the answer only) [2 marks]

34. (c) 音樂會的入場費是每人\$100，入場人數是58764人。把音樂會的入場費收入取近似值至百萬位應是多少？(只須寫出答案) [2分]

Lucky Cake Shop

好運餅店

The standard price of each egg tart is \$8. Members can enjoy the following offers:
每個蛋撻正價為\$8，會員可享有以下優惠：

Offer 1 優惠一	\$30 for 5 egg tarts 以\$30購買5個蛋撻
Offer 2 優惠二	\$50 for 10 egg tarts 以\$50購買10個蛋撻

Customers can get a carton of orange juice for buying 4 egg tarts.
顧客每購買4個蛋撻可免費換領一盒橙汁。

35. (a) Mr Lee spent \$104 to buy some egg tarts at the standard price. How many cartons of orange juice could he get at most? [4 marks]

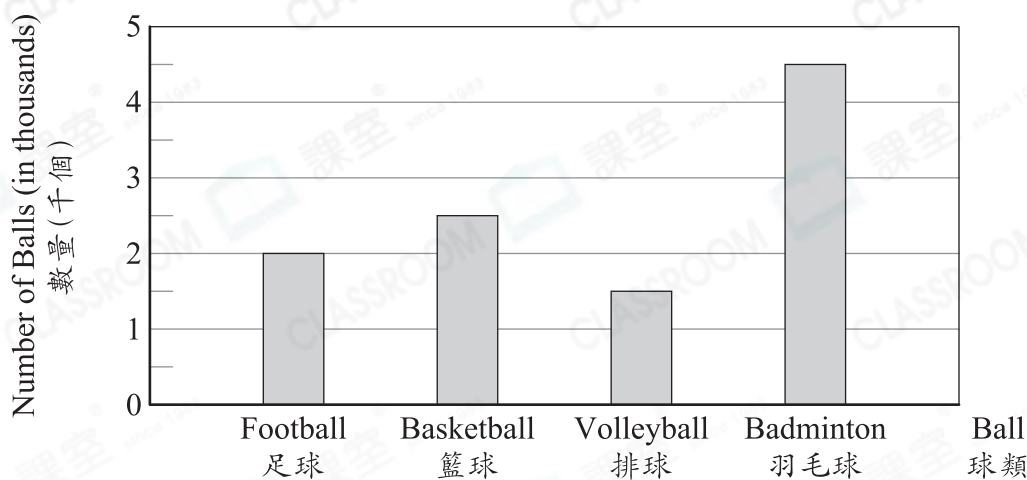
35. (a) 李先生花了\$104以正價購買蛋撻，他最多可換領橙汁多少盒？ [4分]

(b) If Miss Cheung is a member of Lucky Cake Shop and spends \$150 to buy egg tarts, can she get 6 cartons of orange juice? Explain. [4 marks]

(b) 如果張小姐是好運餅店的會員，並用\$150購買蛋撻，她能否換領6盒橙汁？試解釋。 [4分]

Sales of Ball in a Sports Shop Last Month

體育用品店上個月球類的銷量



36. (a) The prices of each football and each basketball were the same. The sales amount of footballs was \$160 000 last month. How much was the sales amount of basketballs last month? [4 marks]

(b) What was the average sales of each type of ball last month? (Give the answer only) [2 marks]

(c) The sports shop also sells bean bags. The original price of each bean bag was \$15.5. 3 extra bean bags would be given for any purchase of one dozen bean bags. How much would each bean bag cost on average? [4 marks]

36. (a) 一個足球和一個籃球的售價相同。上月足球的銷售額是 \$160 000，那麼上月籃球的銷售額是多少？ [4分]

(b) 上月平均每種球類的銷量是多少？(只須寫出答案) [2分]

(c) 該體育用品店亦有售賣豆袋，每個豆袋的原價是 \$15.5，如果購買一打，將可多得3個。平均每個豆袋的售價將會是多少？ [4分]

End of Test Paper

測驗卷完

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary One Mathematics Mock Paper 5

中一入學前數學科模擬試卷(五)

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.

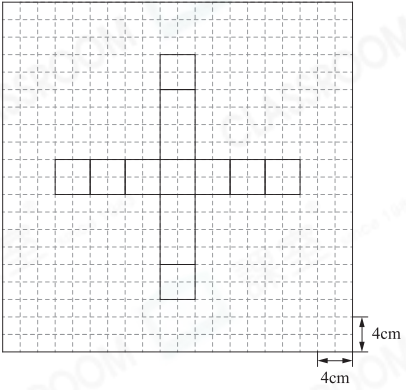
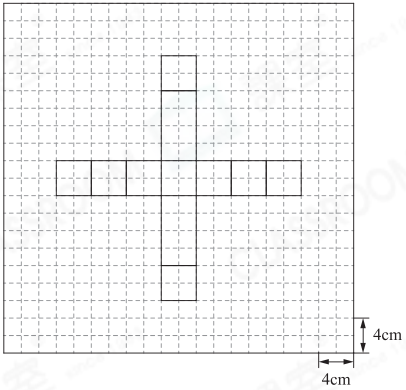
For Teacher's Use

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	1-13	14-17	18-26	27-29	30
	Marks 分數					
Section B 乙部	31(a)					
	31(b)					
	31(c)					
	32(a)					
	32(b)					
	33					
	34(a)					
	34(b)					
	34(c)					
	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
<p>31(a).</p> 	2	<input type="text"/>
<p>31(b).</p> 	2	<input type="text"/>
<p>31(c). Its volume is _____ . (Give your answer with a unit) 它的體積是_____。(答案須寫上單位)</p>	2	<input type="text"/>
<p>32(a). The fraction is _____ . 來自<u>澳洲</u>和<u>英國</u>的遊客佔全部遊客的_____。</p>	2	<input type="text"/>

Go On To Next Page
轉下頁續答

		Marks 估分	Marks 得分
32(b).	There are _____ tourists from America. 來自 <u>美國</u> 的遊客有_____名。	2	<input type="text"/>
33.		4	<input type="text"/>
34(a).	He should go towards _____ . 他應往_____方走路程才是最短的。	2	<input type="text"/>
34(b).		4	<input type="text"/>
34(c).	The concert got about _____ million dollars. 音樂會的入場費收入約是_____百萬元。	2	<input type="text"/>
35(a).		4	<input type="text"/>

Go On To Next Page

轉下頁續答

Marks
估分

Marks
得分

35(b).

Because
因為

* Can / Cannot (*Circle the correct answer)

* 能 / 不能 (*圈出正確答案)

4

36(a).

4

36(b).

The average sales was _____.

平均每種球類的銷量是_____個。

2

36(c).

4

END
完