

Mathematics

數學

Mock Paper 3

模擬試卷(三)

五年級下學期上半部分

題號	學習重點	範疇	題號	學習重點	範疇	
1	多位數(5上)	數	23	三角形的面積(5上)	度量	
2	因數和倍數(4上)		24	周界(4下)、面積(4下)		
3	小數減法(4下)		25	面積(4下)		
4	整數乘法(4上)		26	平行四邊形的面積、三角形的面積(5上)		
5	小數乘法(5下)		27	梯形的面積(5上)		
6	分數的認識(4下)		28	棒形圖(4上)		數據處理
7	小數乘法(5下)		29	複合棒形圖(5上)		
8	小數加減混合計算(4下)		30	簡易方程(5上)	代數	
9	因數和倍數(4上)		圖形與空間	31(a)	立體圖形的頂點和稜(5下)	圖形與空間
10	小數加法(4下)			31(b)	摺紙圖樣(5下)	
11	整數四則混合計算(4下)			32	整數四則混合計算(3下)	數
12	小數乘法(5下)			33(a)	小數減法(4下)	
13	整除性(4上)			33(b)	小數乘法(5下)	
14	小數乘法(5下)、小數減法(4下)			33(c)	小數乘法(5下)	
15	分數乘法(5上)			34(a)	立體圖形的截面(5下)	圖形與空間
16	立體圖形的截面(5下)	34(b)		立體圖形的截面(5下)、周界(4下)		
17	摺紙圖樣(5下)	35(a)		八個方向(4上)	數	
18	八個方向(4上)	35(b)		分數乘法(5上)		
19	摺紙圖樣(5下)	35(c)		小數乘法(5下)		
20	八個方向(4上)	數據處理		36(a)	複合棒形圖(5上)	
21	圓的認識(5下)			36(b)	複合棒形圖(5上)	
22	圓的認識(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 selling price of flat P is \$3 428 301, which is half of the selling price of flat Q. What is the selling price of flat Q when corrected to the nearest hundred thousand dollars?

- A. \$6 800 000
- B. \$6 850 000
- C. \$6 900 000
- D. \$7 000 000

1. 住宅單位P的售價是\$3 428 301，恰巧是住宅單位Q售價的一半，住宅單位Q的售價，如取近似值至十萬位，應是多少？

- A. \$6 800 000
- B. \$6 850 000
- C. \$6 900 000
- D. \$7 000 000

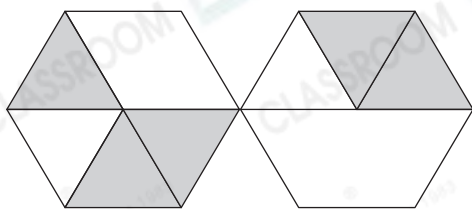
2. All factors of K are: 1, 3, 5, 9, 15, K
Which of the following is a multiple of K ?

- A. 135
- B. 100
- C. 80
- D. 20

2. K 的所有因數是：
1、3、5、9、15、 K
以下哪一項是 K 的倍數？

- A. 135
- B. 100
- C. 80
- D. 20

<p>3. What is the difference between the values of '9' and '6' in the number 2398.65?</p> <p>A. 15 B. 84.9 C. 89.4 D. 150</p>	<p>3. 在 2398.65 這個數中，「9」與「6」的數值相差多少？</p> <p>A. 15 B. 84.9 C. 89.4 D. 150</p>
<p>4. A watermelon costs \$36. One extra free watermelon will be given when buying 8 watermelons. If the shopkeeper only needs 55 watermelons, how much should he pay at least?</p> <p>A. \$1980 B. \$1764 C. \$1728 D. \$252</p>	<p>4. 一個西瓜的售價是\$36，購買八個可額外獲贈一個。如果甜品店店主需要55個西瓜，他最少需要付多少？</p> <p>A. \$1980 B. \$1764 C. \$1728 D. \$252</p>
<p>5. Last month, Yuri worked 15 days in a pet store and each day she worked from 8:30 a.m. to 3:00 p.m. If the wage for working in the store was \$50 for an hour, how much did Yuri earn last month?</p> <p>A. \$4875 B. \$4287 C. \$3845 D. \$3462</p>	<p>5. <u>婉怡</u>上月在寵物店工作15天，每天由8:30 a.m.工作至3:00 p.m.。如果在寵物店工作每小時的薪金是\$50，<u>婉怡</u>上月獲得薪金多少？</p> <p>A. \$4875 B. \$4287 C. \$3845 D. \$3462</p>



6. The above figure is formed by 2 hexagons of the same size. The length of each side of hexagon is equal. What fraction of the whole figure is shaded?

- A. $\frac{1}{3}$
- B. $\frac{5}{12}$
- C. $\frac{1}{2}$
- D. $\frac{5}{9}$

6. 上圖是由兩個大小相同的六邊形組成，六邊形每邊的邊長相等。陰影部分佔全圖的幾分之幾？

- A. $\frac{1}{3}$
- B. $\frac{5}{12}$
- C. $\frac{1}{2}$
- D. $\frac{5}{9}$

Charge for Express Delivery Service
速遞服務收費

Every 1 kg 每 1 公斤	\$18.50
(1-kg rate is charged for weight less than 1 kg) (不足 1 公斤亦以 1 公斤收費計算)	

7. Miss Ho would like to send a parcel which weighed 2.4 kg. How much should she pay?

- A. \$37
- B. \$44.4
- C. \$55.5
- D. \$555

7. 何小姐需要速遞一件重 2.4 公斤的包裹，她須付款多少？

- A. \$37
- B. \$44.4
- C. \$55.5
- D. \$555

8. Doris deposited \$500 into her bank account. Then she paid \$356.4 by her bank card in a store. The remaining value in her bank account was \$243.5. What was the remaining value in Doris's bank account before she deposited the money?

- A. \$75.4
- B. \$99.9
- C. \$143.6
- D. \$256.5

8. 多麗把\$500存入到她的銀行戶口後，去商店用銀行卡付賬\$356.4，她的戶口結餘是\$243.5。多麗的銀行戶口在存入款項前有餘額多少？

- A. \$75.4
- B. \$99.9
- C. \$143.6
- D. \$256.5

9. If $M \times N = 128$, which of the following is **not correct**?

- A. 128 must be the L.C.M. of M and N .
- B. 128 is a multiple of M .
- C. N is a factor of 128.
- D. 128 must be a common multiple of M and N .

9. 如果 $M \times N = 128$ ，下列哪一項是**不正確**的？

- A. 128 一定是 M 和 N 的 L.C.M.。
- B. 128 是 M 的倍數。
- C. N 是 128 的因數。
- D. 128 一定是 M 和 N 的公倍數。

10. My uncle bought two pineapples. One of them weighs 1.25kg, and the other one is 0.8kg heavier than it. What is the total weight of the pineapples?

- A. 1.7kg
- B. 2.05kg
- C. 2.3kg
- D. 3.3kg

10. 叔叔買了兩個菠蘿。其中一個菠蘿重 1.25kg，另一個比它重 0.8kg。這些菠蘿共重多少？

- A. 1.7kg
- B. 2.05kg
- C. 2.3kg
- D. 3.3kg

11. Amy has 40 packets of 5g and 10g sugar altogether. They weigh 320g in total. If Amy has 8 fewer packets of 5g sugar than that of 10g sugar, how many packets of 10g sugar does she have?

- A. 24
- B. 20
- C. 14
- D. 12

11. 巧靜有重5g和10g的砂糖共40包，它們共重320g。如果重5g的砂糖比重10g的砂糖少8包，她有重10g的砂糖多少包？

- A. 24
- B. 20
- C. 14
- D. 12

12. Which of the following has the smallest value?

- A. 216×0.42
- B. 198×0.49
- C. 21.6×42
- D. 19.8×49

12. 下列哪一項的值最小？

- A. 216×0.42
- B. 198×0.49
- C. 21.6×42
- D. 19.8×49

13. If P is divisible by 3 and Q is divisible by 10, which of the following expression must be divisible by 30?

- A. $3 + P$
- B. $P + 10$
- C. $Q \times Q$
- D. $6 \times Q$

13. 如果 P 可以被3整除， Q 可以被10整除。以下哪一項必定能被30整除？

- A. $3 + P$
- B. $P + 10$
- C. $Q \times Q$
- D. $6 \times Q$

14. When calculating 0.25×0.8 , Candy mistakenly worked it out as 2.5×8 . What is the difference between her answer and the correct answer?

- A. 1.8
- B. 1.98
- C. 18
- D. 19.8

14. 在計算 0.25×0.8 時，文麗 錯誤計算為 2.5×8 。她的答案與正確答案相差多少？

- A. 1.8
- B. 1.98
- C. 18
- D. 19.8

15. Wilson practised guitar for $\frac{5}{12}$ hour every day from 25th August to 15th September. How long did he practise in total?

- A. $8\frac{1}{3}$ hours
- B. $8\frac{3}{4}$ hours
- C. $9\frac{1}{6}$ hours
- D. 10 hours

15. 明浩 從 8 月 25 日至 9 月 15 日，每天練習吉他 $\frac{5}{12}$ 小時，他共練習了多少小時？

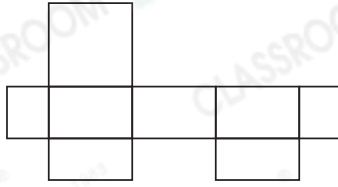
- A. $8\frac{1}{3}$ 小時
- B. $8\frac{3}{4}$ 小時
- C. $9\frac{1}{6}$ 小時
- D. 10 小時

16. Which of the following solid has a quadrilateral cross section when it is cut parallel to the base?

- A. cone
- B. cylinder
- C. triangular prism
- D. cube

16. 下列哪一個立體平行於底切開，所得的截面是四邊形？

- A. 圓錐
- B. 圓柱
- C. 三角柱
- D. 正方體

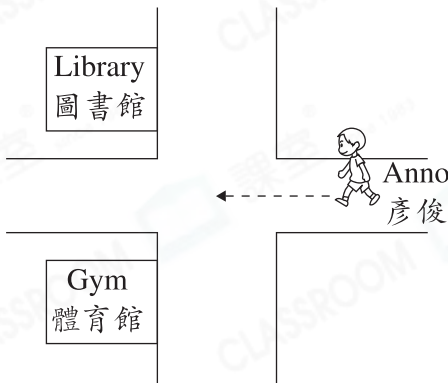


17. The above figure is the net of a prism.
How many faces are there in this prism?

- A. 5
- B. 6
- C. 7
- D. 8

17. 上圖是一個角柱的摺紙圖樣，這角柱有多少個面？

- A. 5
- B. 6
- C. 7
- D. 8



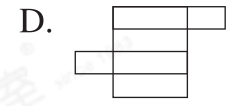
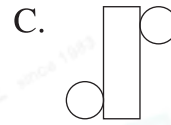
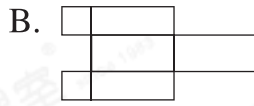
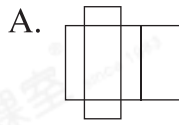
18. In the above figure, Anno was walking in the northwest along the footpath. When he arrived at the junction, in which direction should he go in order to reach the gym?

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

18. 上圖中，彦俊正沿路向西北方走，當他到達分岔路口時，他應向什麼方向走才可以到達體育館？

- A. 北
- B. 東北
- C. 南
- D. 西南

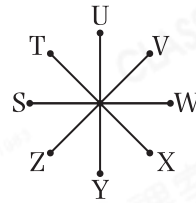
19. Which of the following nets can be folded into a cuboid?



19. 下列哪個摺紙圖樣可摺成長方體？

20. If T is west of X, what direction is W from S?

- A. east
- B. northeast
- C. west
- D. southwest

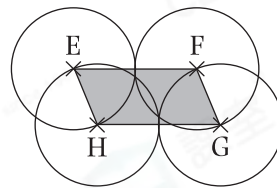


20. 如果T在X的西方，那麼W在S的哪一方？

- A. 東
- B. 東北
- C. 西
- D. 西南

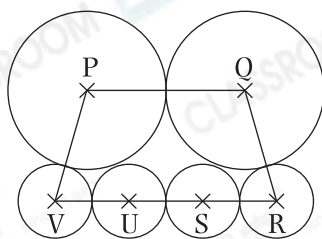
21. In the above figure, E, F, G and H are centres of 4 circles of the same size. The perimeter of the shaded part is 48cm. What is the diameter of a circle?

- A. 8cm
- B. 12cm
- C. 16cm
- D. 24cm



21. 上圖中，E、F、G和H是4個大小相同的圓的圓心。陰影部分的周界是48cm。一個圓的直徑是多少？

- A. 8cm
- B. 12cm
- C. 16cm
- D. 24cm

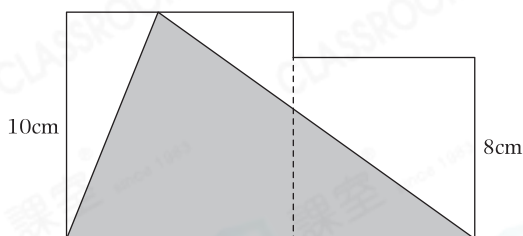


22. In the above figure, there are two big circles of the same size and four small circles of the same size. P, Q, R, S, U and V are the centres of these six circles. The lengths of PV and VR are 22cm and 42cm respectively. What is the radius of a big circle?

- A. 7cm
- B. 14cm
- C. 15cm
- D. 30cm

22. 上圖中，有兩個大小相同的大圓和四個大小相同的小圓。P、Q、R、S、U和V是這六個圓的圓心。PV和VR的長度分別是22cm和42cm。一個大圓的半徑是多少？

- A. 7cm
- B. 14cm
- C. 15cm
- D. 30cm

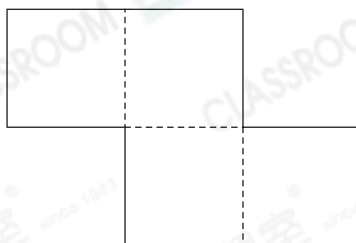


23. The above figure shows two squares of sides 10cm and 8cm respectively. What is the area of the shaded part?

- A. 72cm^2
- B. 90cm^2
- C. 144cm^2
- D. 180cm^2

23. 上圖有兩個正方形，邊長分別是10cm和8cm。陰影部分的面積是多少？

- A. 72cm^2
- B. 90cm^2
- C. 144cm^2
- D. 180cm^2

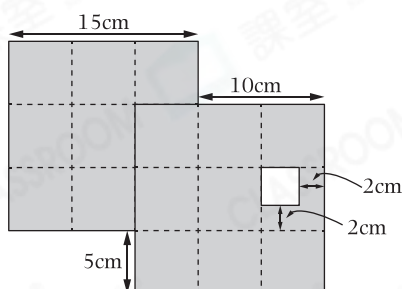


24. The above figure is formed by four squares of the same size. The area of the figure is 144cm^2 . What is its perimeter?

- A. 120cm
- B. 96cm
- C. 72cm
- D. 60cm

24. 上圖是由四個大小相同的正方形所組成，面積是 144cm^2 ，它的周界是多少？

- A. 120cm
- B. 96cm
- C. 72cm
- D. 60cm

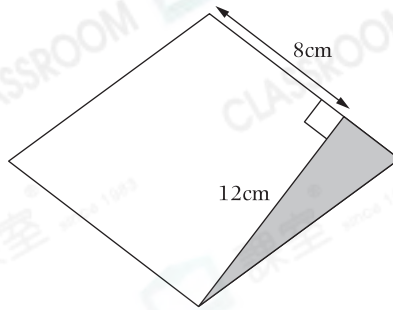


25. Two squares of side 15cm are placed together. Parts of them are overlapped and a white portion is cut away as shown in the above figure. What is the area of the shaded part?

- A. 225cm^2
- B. 391cm^2
- C. 400cm^2
- D. 450cm^2

25. 將兩個邊長是15cm的正方形放在一起，其中部分重疊，並剪去白色部分，如上圖所示。陰影部分的面積是多少？

- A. 225cm^2
- B. 391cm^2
- C. 400cm^2
- D. 450cm^2

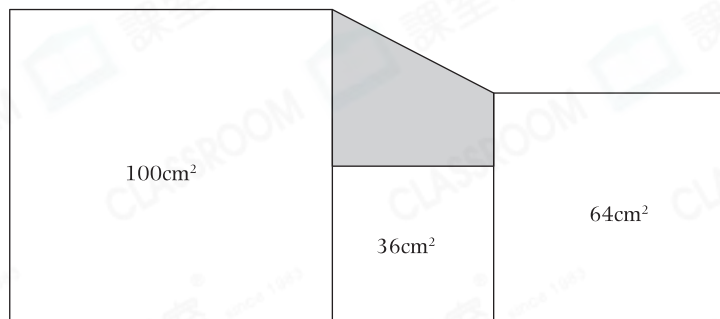


26. The area of the above parallelogram is 156cm^2 . What is the area of the shaded part?

- A. 30cm^2
- B. 60cm^2
- C. 63cm^2
- D. 126cm^2

26. 上圖平行四邊形的面積是 156cm^2 ，陰影部分的面積是多少？

- A. 30cm^2
- B. 60cm^2
- C. 63cm^2
- D. 126cm^2



27. The above figure is formed by a trapezium and three squares. What is the area of the shaded part?

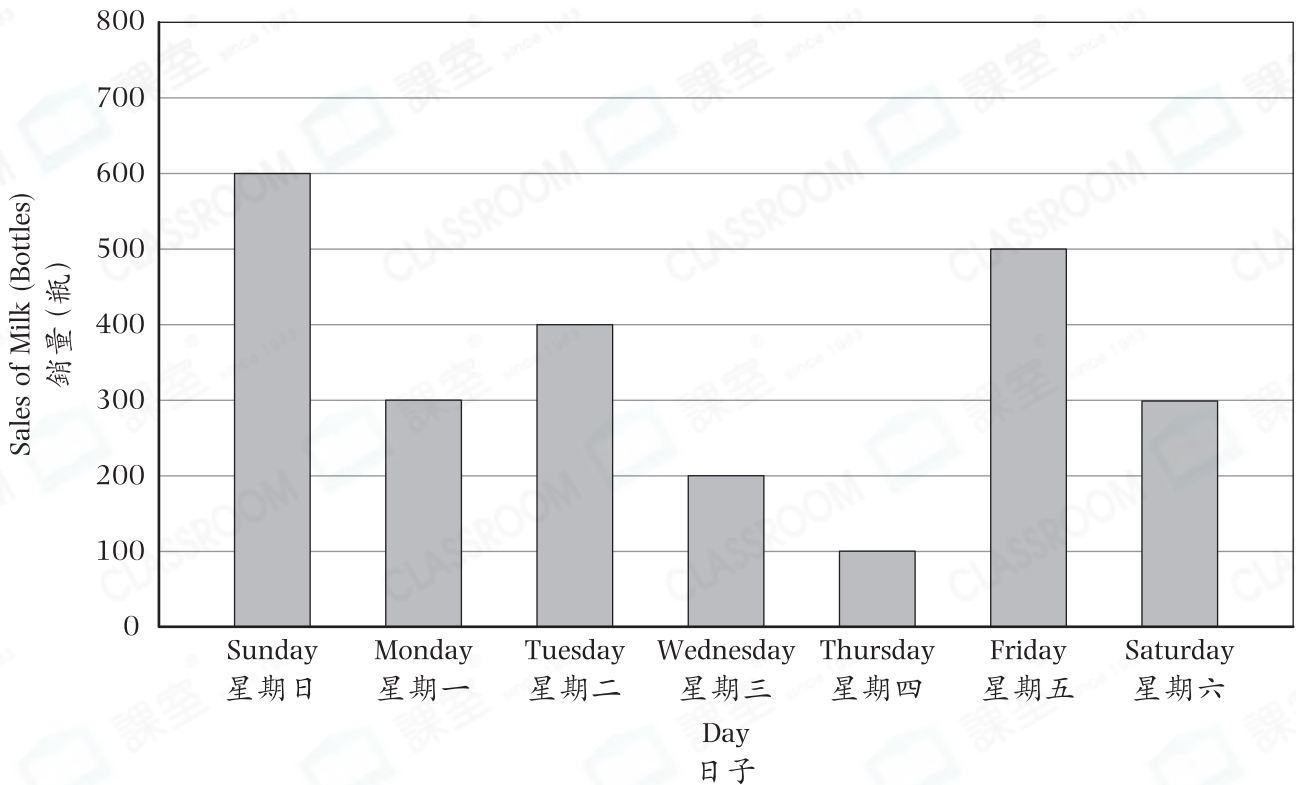
- A. 18cm^2
- B. 36cm^2
- C. 45cm^2
- D. 78cm^2

27. 上圖由一個梯形和三個正方形拼合而成，陰影部分的面積是多少？

- A. 18cm^2
- B. 36cm^2
- C. 45cm^2
- D. 78cm^2

Sales of Milk Last Week

上星期牛奶的銷量



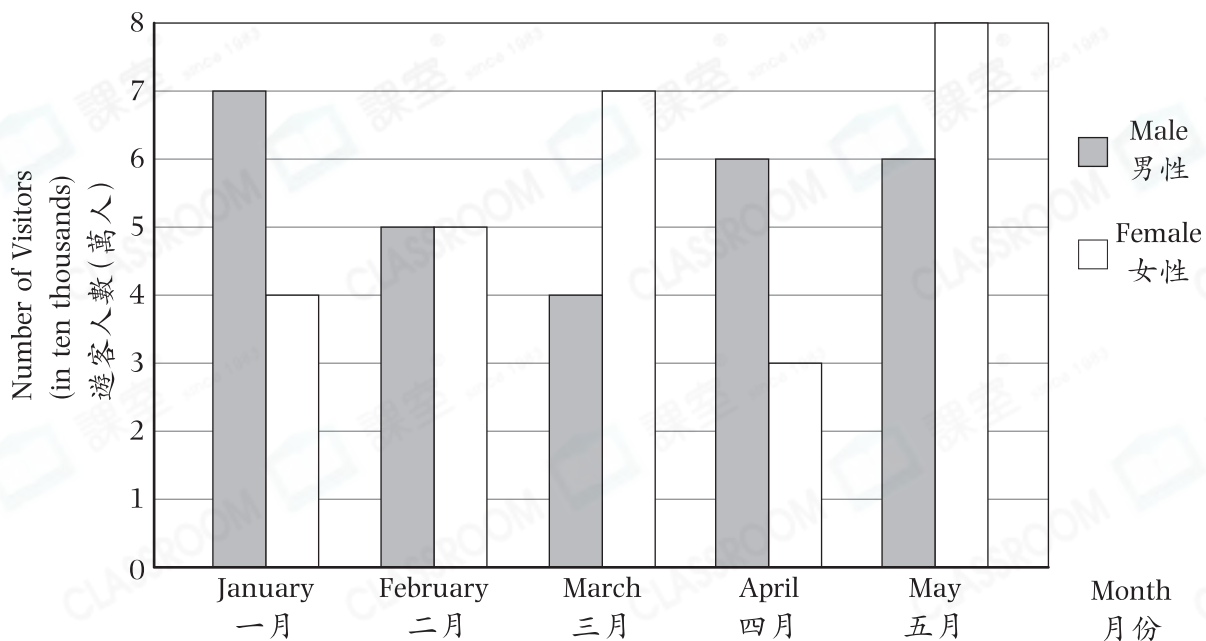
28. Which of the following is correct?

- A. Sales of milk on Wednesday were half of those on Monday.
- B. Sales of milk on Tuesday were more than those on Friday by 100 bottles.
- C. Sales of milk on Friday were equal to the sum of those on Monday and Wednesday.
- D. Sales of milk on Saturday were twice those on Sunday.

28. 以下哪一項是正確的？

- A. 星期三的牛奶銷量是星期一的一半。
- B. 星期二的牛奶銷量比星期五的多 100 瓶。
- C. 星期五的牛奶銷量是星期一和星期三的銷量之和。
- D. 星期六的牛奶銷量是星期日的兩倍。

Number of Visitors of the Resort in the Past Five Months
 度假村過去五個月的遊客人數



29. According to the above graph, what was the total number of female visitors in the past five months?

- A. 27
- B. 54
- C. 270 000
- D. 280 000

29. 根據上圖，過去五個月女性遊客的總人數是多少人？

- A. 27
- B. 54
- C. 270 000
- D. 280 000

30. If $12y = 108$, then $\frac{y}{12} = ?$

- A. 9
- B. $1\frac{1}{3}$
- C. 1
- D. $\frac{3}{4}$

30. 如果 $12y = 108$ ，那麼 $\frac{y}{12} = ?$

- A. 9
- B. $1\frac{1}{3}$
- C. 1
- D. $\frac{3}{4}$

End of Section A

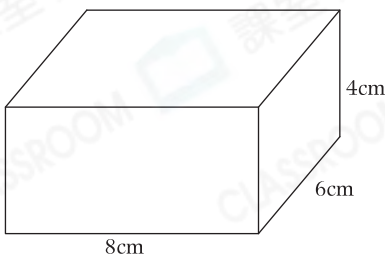
甲部完

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 cuboid box.

(a) How many edges and vertices does the cuboid box have? (Give the answer only) [2 marks]

(b) On the answer sheet, draw the net of the box. [2 marks]

31. 上圖是一個長方體盒子。

(a) 長方體盒子有稜多少條，頂點多少個？(只須寫出答案) [2分]

(b) 在答題紙上畫出這個盒子的摺紙圖樣。 [2分]

Price Table

價目表

Fish tank (per tank) 魚缸(每個)	\$32
Goldfish (per fish) 金魚(每條)	\$8

32. Mike wanted to buy some gifts for his 2 friends. If each of them would get 1 fish tank and half dozen goldfish, according to the above table, how much should Mike pay? [4 marks]

32. 哲明打算購買禮物送給2位朋友。若他們各得1個魚缸和半打金魚，根據上表，哲明應付款多少？ [4分]

Betty Company
貝利公司

Petrol \$16.80 per litre
汽油 每升 \$16.80

Enjoy the rate of \$1.50 less per litre with our membership card
使用會員卡，每升可便宜 \$1.50

Dolly Company
多益公司

Petrol \$16.60 per litre
汽油 每升 \$16.60

Enjoy the rate of \$15.50 per litre if paying by cash
使用現金付款，每升只需 \$15.50

33. The figure above shows the price of petrol for two companies.

(a) If customers fill their cars with petrol in Betty Company with a membership card, what is the price of each litre of petrol? (Give the answer only) [2 marks]

(b) Mr Leung wants to fill his car with 30L of petrol in Dolly Company. If he pays by cash, how much should he pay? [4 marks]

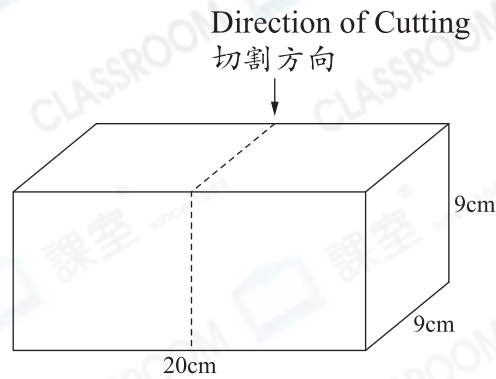
(c) Mr Wong wants to fill his car with 45L of petrol in Betty Company. If he uses his membership card, how much would he save? [4 marks]

33. 上圖顯示兩間公司汽油的售價。

(a) 顧客使用會員卡惠顧貝利公司，每升汽油的售價是多少？
(只須寫出答案) [2分]

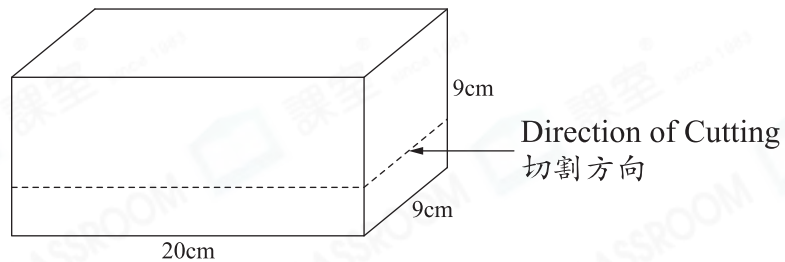
(b) 梁先生光顧多益公司為汽車加30L汽油，如果他以現金付款，應付款多少？ [4分]

(c) 王先生光顧貝利公司為汽車加45L汽油，如果他使用會員卡，可節省多少？ [4分]



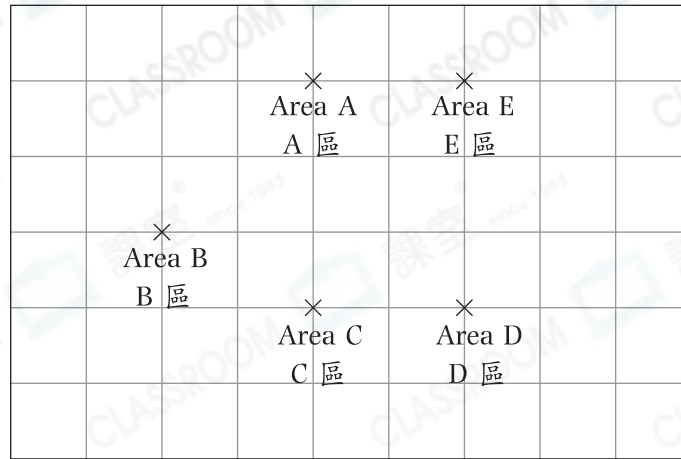
34. (a) The above figure shows a cuboid. If it is cut vertically along the dotted lines, what is the shape of the cross section? On the answer sheet, write your answer and then draw the shape. [2 marks]

34. (a) 上圖展示的是一個長方體，如果把它沿虛線垂直切割，切割出來截面的形狀是什麼？在答題紙上寫出答案，然後畫出該圖形。 [2分]



(b) If the cuboid is cut horizontally along the dotted lines, as shown above, what is the perimeter of the cross section? (Give the answer only) [2 marks]

(b) 如果把長方體沿虛線作水平切割，如上圖所示，那麼切割出來截面的周界是多少？(只須寫出答案) [2分]



35. The above is a plan of the farm. The owner of the farm runs a snack shop in the Area D. He puts 180 cups of ice cream in the fridge for sale. $\frac{2}{9}$ of the ice cream is vanilla flavor.

- (a) Area A is in the east of Area B. What is the direction of the snack shop from Area E? (Give the answer only) [2 marks]
- (b) In the snack shop, $\frac{3}{5}$ of vanilla ice cream was sold, how many cups of vanilla ice cream were sold? [4 marks]
- (c) Each cup of ice cream costs \$36.5. If Alice and 5 friends each buy a cup of ice cream, how much should they pay in total? [4 marks]

35. 上圖是農場的平面圖。農場主人在D區經營了一間小食店，並在冰箱裏放了180杯雪糕售賣，其中 $\frac{2}{9}$ 是香草口味。

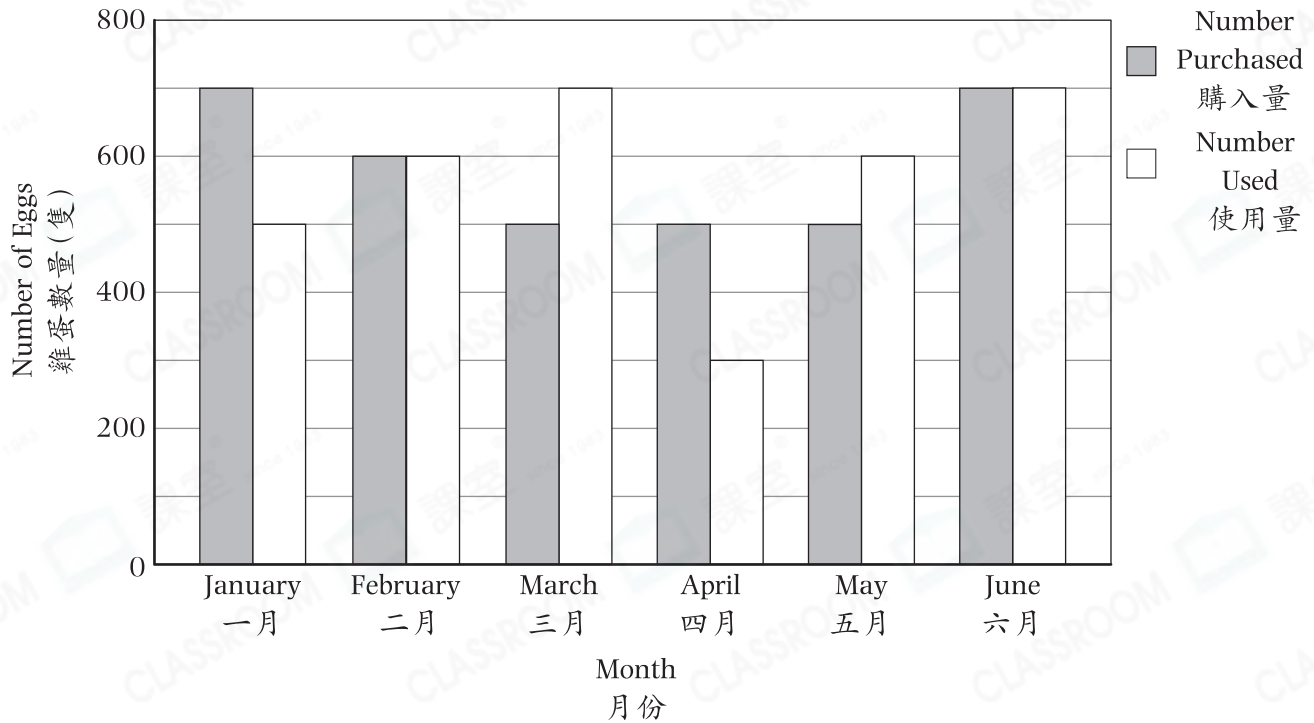
- (a) A區在B區的東方，小食店在E區的哪一方？(只須寫出答案) [2分]
- (b) 小食店售出了香草口味雪糕的 $\frac{3}{5}$ ，即售出香草口味雪糕多少杯？ [4分]
- (c) 每杯雪糕的售價是\$36.5，美珍和五位朋友各買了一杯雪糕，他們共須付款多少？ [4分]

36. The following graph shows the number of eggs purchased and used in a bakery in the first half year. The unused eggs were kept for the next month.

36. 下圖顯示麵包店上半年雞蛋的購入量和使用量。未用完的雞蛋會留到下個月使用。

Number of Eggs Purchased and Used in a Bakery in the First Half Year

麵包店上半年雞蛋購入量和使用量



(a) What was the average number of eggs used each day in April?
[4 marks]

(a) 麵包店四月平均每日用去雞蛋多少隻？ [4分]

(b) The bakery needs 150 eggs for making bread on the first day of July. Will the bakery have enough eggs for making bread if it does not purchase new eggs on that day? Explain.
[4 marks]

(b) 麵包店在七月首日需要150隻雞蛋做麵包，如果這天不購入雞蛋，該店的雞蛋是否足夠做麵包？試解釋。 [4分]

End of Test Paper

測驗卷完

HONG KONG ATTAINMENT TEST

香港學科測驗

Pre-Secondary 1 Mathematics Mock Paper 3

中一入學前數學科模擬試卷(三)

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)

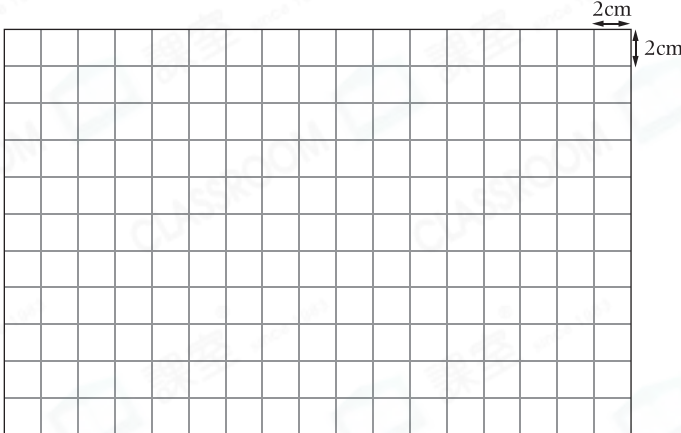
1.		11.		21.	
2.		12.		22.	
3.		13.		23.	
4.		14.		24.	
5.		15.		25.	
6.		16.		26.	
7.		17.		27.	
8.		18.		28.	
9.		19.		29.	
10.		20.		30.	

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	1-15	16-22	23-27	28-29	30
	Marks 分數					
Section B 乙部	31(a)					
	31(b)					
	32					
	33(a)					
	33(b)					
	33(c)					
	34(a)					
	34(b)					
	35(a)					
	35(b)					
	35(c)					
	36(a)					
36(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
<p>31(a). The cuboid box has _____ edges and _____ vertices. 長方體盒子有 _____ 條稜和 _____ 個頂點。</p>	2	<input type="text"/>
<p>31(b).</p> 	2	<input type="text"/>
<p>32.</p>	4	<input type="text"/>
<p>33(a). The price of each litre of petrol is \$ _____ . 每升汽油的售價是 \$ _____ 。</p>	2	<input type="text"/>

Go On To Next Page

轉下頁續答

Marks
估分

Marks
得分

33(b).

4

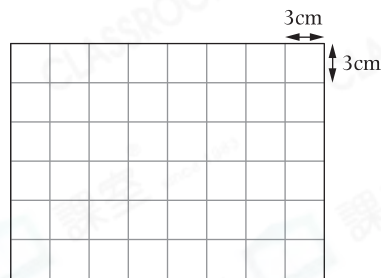
33(c).

4

34(a).

The shape of the cross section is a/an _____.

切割出來截面的形狀是_____。



2

34(b).

The perimeter of the cross section is _____ cm.

切割出來截面的周界是_____ cm。

2

35(a).

The snack shop is in the _____ of Area E.

小食店在E區的_____方。

2

Go On To Next Page

轉下頁續答

Marks
估分

Marks
得分

35(b).

4

35(c).

4

36(a).

4

36(b).

Because
因為

* enough / not enough (*Circle the answer)

* 足夠 / 不足夠 (*圈出答案)

4

END
完