Section A: Multiple Choice Questions   (75%)

每题附有 A, B, C 和 D 四个选项，只可选一个答案。

Each question is followed by four options **A, B, C** *and* **D**. *Choose only one answer.*

1 $540 + (3 + 2) \times 2 - (15 \times 2) = ?$

A   420   **B**   520   **C**   1060   **D**   2150

2 $5\dfrac{3}{4} + 2\dfrac{1}{2} + \dfrac{5}{6} = ?$

A $8\dfrac{1}{12}$ **B** $9\dfrac{5}{12}$ **C** $9\dfrac{1}{12}$ **D** $8\dfrac{5}{12}$

3   哪项换算是**不正确**的?

Which of the following conversion is **incorrect**?

A   100 m = 10 000 cm   **B**   520 mm = 0.52 m

C   80 km = 800 000 cm   **D**   25 cm = 250 mm

4   10 小时 − $5\dfrac{3}{4}$ 小时 = ?

10 hours − $5\dfrac{3}{4}$ hours = ?

A   4 小时 15 分钟
    4 *hours* 15 *minutes*
B   4 小时 5 分钟
    4 *hours* 5 *minutes*
C   4 小时 45 分钟
    4 *hours* 45 *minutes*
D   3 小时
    3 *hours*

5   五万是六位数的可能性是什么?

What is the possibility that fifty thousand is a 6-digit number?

A   肯定   **B**   可能性大   **C**   不可能   **D**   可能性小

    Certainly   Most likely   Impossible   Least likely

6   图 1 显示 W, X, Y and Z 被画在大小一样的正方格中。

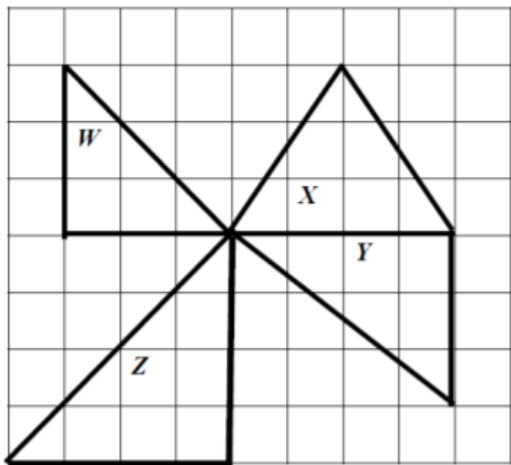In Diagram 1, triangles W, X, Y and Z are drawn on square grids of equal size.

图 1 / *Diagram* 1

下列哪一个**不是**等腰三角形?

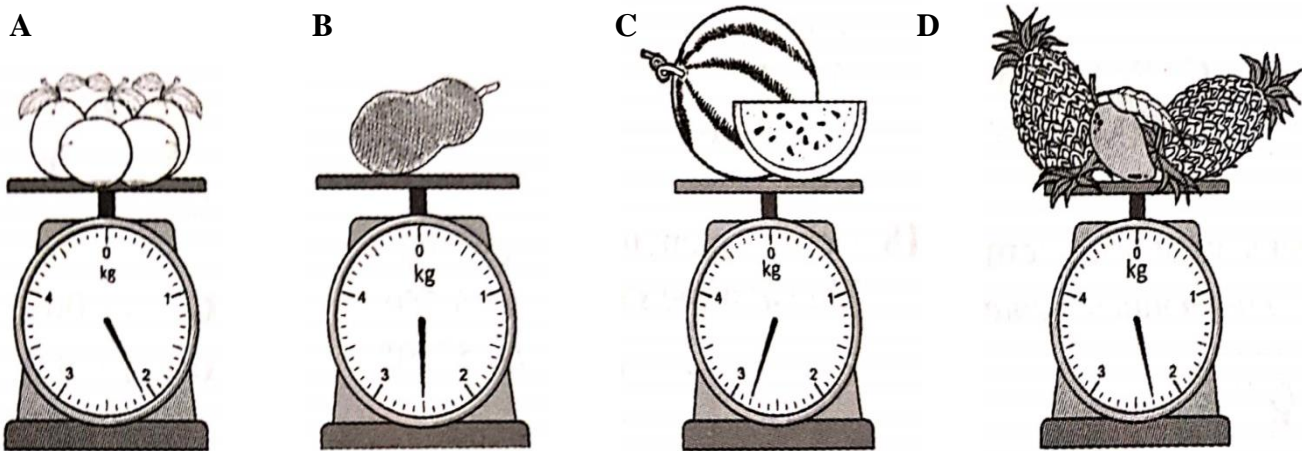Which of the following is **not** an isosceles triangle?

A   *W*   **B**   *X*   **C**   *Y*   **D**   *Z*

7   试求以下数列中 **K** 的值。

In the number sequence below, find the value of **K**.

2,	4,	7,	14,	**K,**	34,	37

A   15   **B**   16   **C**   17   **D**   18

8   1 kg 500 g $\times$ $1\frac{2}{5}$ = ☐

A   **B**   **C**   **D**

2

9 林先生拥有一些苹果。他出售了 $\frac{15}{17}$ 的苹果后，还剩下 6 粒苹果。请问林先生本来有多少粒苹果？

Mr. Lim has some apples. After selling $\frac{15}{17}$ of the apples, he still have 6 apples left. How many apples did Mr. Lim have originally?

A　38　　　　　**B**　41　　　　　**C**　48　　　　　**D**　51

10 一数学测验在 0845 开始，结束于 2 小时 30 分钟后。请问测验在什么时候结束？

A Mathematics test starts at 0845 and ends 2 hours 30 minutes later. At what time will the test end?

A　1045　　　　**B**　1105　　　　**C**　1110　　　　**D**　1115

11 在 2017 年，班尼的年龄是 18。当他出生时，他的母亲是 28 岁。请问在 2023 年时，班尼的母亲多少岁？

Benny was 18 years old in year 2017. His mother was 28 years old when Benny was born. How old will his mother be in the year 2023?

A　52　　　　　**B**　50　　　　　**C**　48　　　　　**D**　46

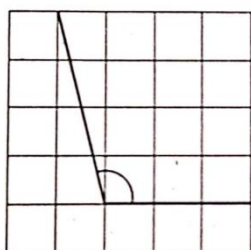**12** 杰克在十月份的薪水是 RM1 320。他在九月份时获得一年加薪 10%。试求杰克在九月份的薪水。

Jack's salary in October is RM1 320. His salary is increased by 10% in September. Calculate Jack's salary in September.
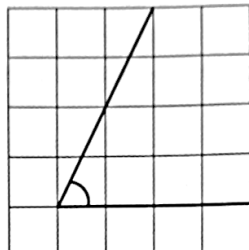
A　RM1 118　　　**B**　RM1 200　　　**C**　RM1 220　　　**D**　RM1 300
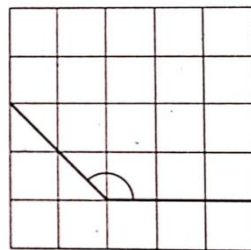
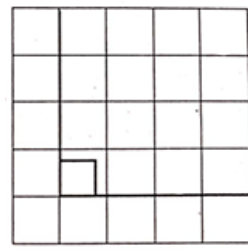**13** 以下哪项是直角？

Which of the following shows a right angle?

A　　　　　　**B**　　　　　　**C**　　　　　　**D**

14 图 2 显示一幅路线图。

Diagram 2 shows a route map.

休闲公园 Recreational park

Meiyi's home
美仪的家

4.75 km

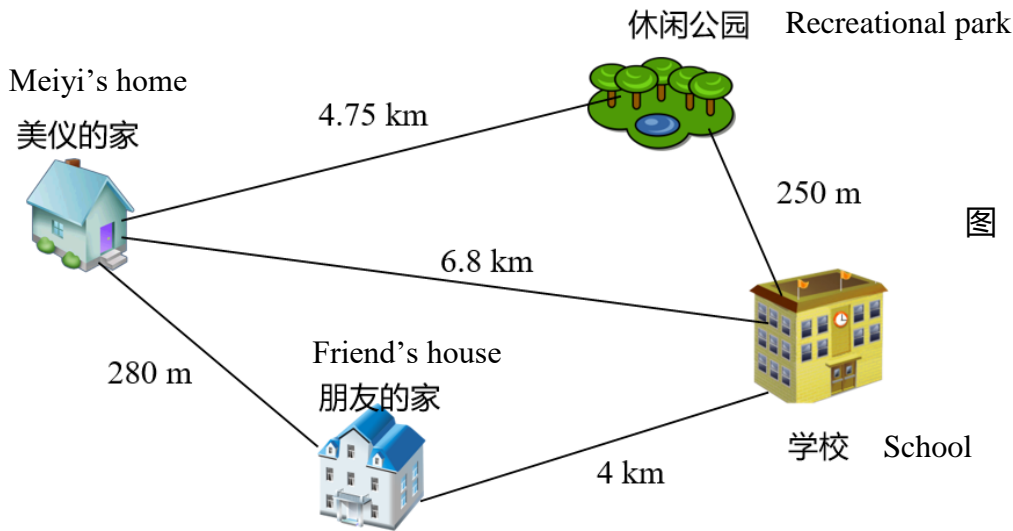250 m

图 2 / Diagram 2

6.8 km

Friend's house
朋友的家

280 m

4 km

学校 School

美仪从家里骑自行车沿着**最短**的路线去学校却沿着**最长**的路线回家。计算美仪总共走了多少 km 的路程。

Meiyi rides a bicycle from home along the **shortest** route to school but takes the **longest** route home. Calculate how many kilometres Meiyi has travelled in total.

A   9.28   **B**   11.08   **C**   11.80   **D**   16.08

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15   李太在 10 天内卖了 504 颗鸡蛋。她在首四天内一共卖了 132 颗鸡蛋。哪项算式能正确计算出李太平均卖出剩余的鸡蛋?

Puan Lee sells 504 eggs in 10 days. In the first four days, she sold a total of 132 eggs. Which of the following calculations is the correct method to calculate the average number of eggs she sold for the remaining days?

A $504 \div 10 - 132$ **B** $504 - 132 \div 10$

C $(504 - 132) \div 4$ **D** $(504 - 132) \div (10 - 4)$

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16   一粒苹果和一粒橙子的价格分别为 RM0.85 和 RM1.05。 杰深买了 10 粒苹果和 16 粒橙子。如果杰深用 3 张十块马币(RM)来付款，计算他可以得回多少钱。

An apple costs RM0.85 and an orange costs RM1.05. Jackson buys 10 apples and 16 oranges. Find the balance received by Jackson if he pays with 3 pieces of RM10 notes.

A   RM4.70   **B**   RM4.50   **C**   RM3.70   **D**   RM3.50

17   图 3 显示一个综合图形，它是由一个长方形和一个直角三角形所组成的。

Diagram 3 shows a composite shape of a rectangle and a right-angled triangle.
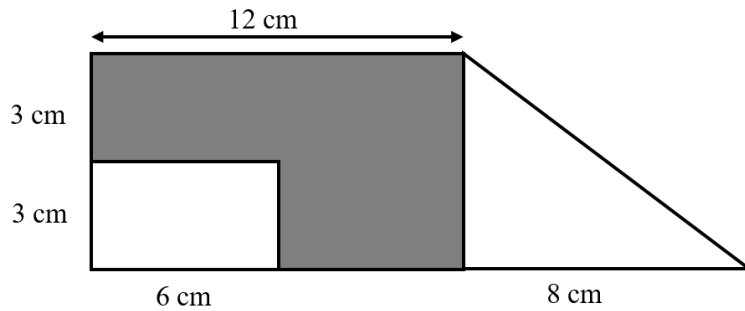
图 3 / *Diagram 3*

计算涂黑部分与空白部分的面积的比。

Calculate the ratio of the area of the shaded region to the area of the unshaded region.

A   4 : 1   **B**   7 : 9   **C**   5 : 3   **D**   9 : 7

18   黄老板以 RM450 从厂方买了 15 个书包，并计划从中获得 15%的利润。

Mr. Huang bought 15 school bags from a factory for RM450 and plans to

get 15% profit from it.

以下哪项说明是**正确**的?

Which of the following descriptions is **correct**?

A   黄老板以 RM43.50 卖出一个书包。

   Mr. Huang sells a school bag for RM43.50.

B   黄老板卖出一个书包可赚得 RM67.50。

   Mr. Huang can earn RM67.50 for selling a school bag.
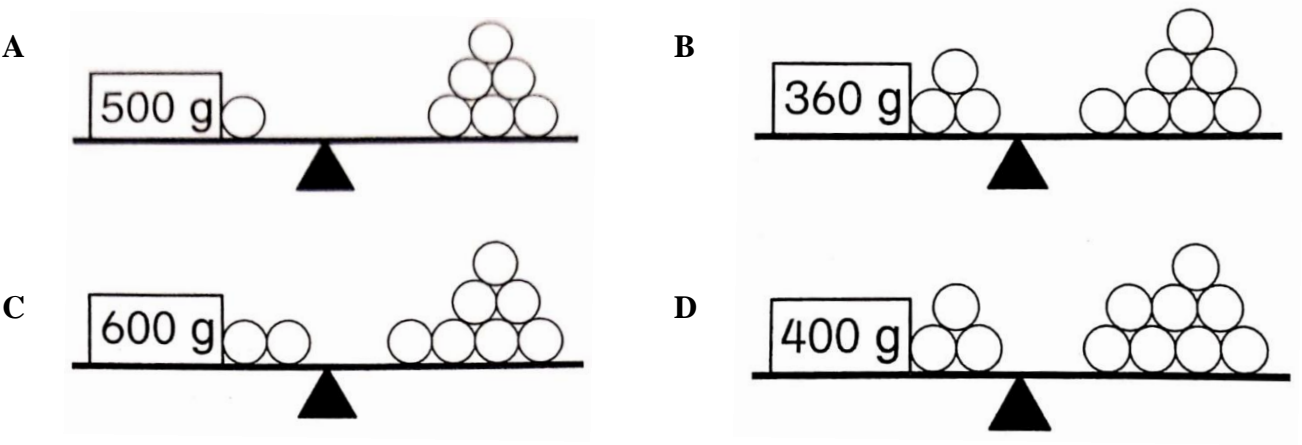
C   黄老板卖出两个书包可赚得 30%的盈利。

   Mr. Huang can get a profit of RM30% for selling two school bags.

D   黄老板卖完全部书包可获得 RM517.50。

   Mr. Huang can obtain RM517.50 for selling all the school bags.

19　每个天平上的铁球有相同的质量。哪个天平上的每个铁球的质量是 80 g?

Each of the steel ball on the lever balance has the same mass. On which balance is the mass of one steel ball equal to 80 g?

A 500 g

B 360 g

C 600 g

D 400 g

20　图 4 的象形统计图显示某公司在 4 个月内电脑打印机的销售量。三月份的销售量没有显示出来。

Diagram 4 is a pictograph showing the number of computer printers sold in four months by a company. The sales in the month of March is not shown.

月份　Month	电脑打印机数量 Number of printers
一月　January	🖨🖨🖨🖨🖨🖨🖨🖨🖨
二月　February	🖨🖨🖨
三月　March	
四月　April	🖨🖨🖨🖨

图 4 / *Diagram* 4

🖨 代表 50 台打印机

Represents 50 printers

三月份的销售量比一月份和二月份的销售量多 20%。计算三月份的销售量。

The sales in the month of March is 20% more than the sales in the months of January and February.

Calculate the sales in the month of March.

A　55　　　　**B**　60　　　　**C**　600　　　　**D**　660
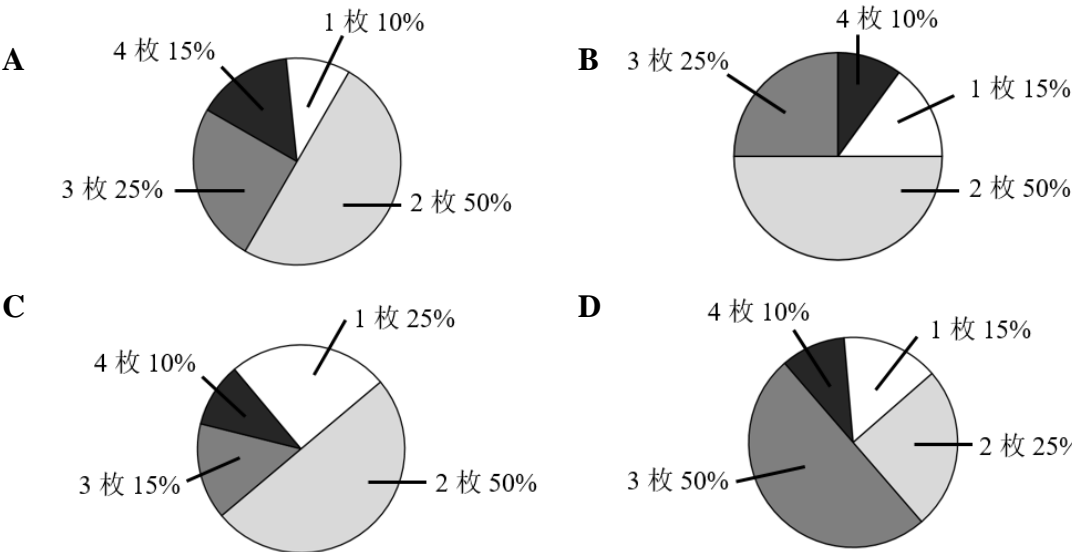
21　表 1 显示在运动会中获得不同奖牌数量的学生人数。

Table 1 shows the number of students who won different number of medals in the sports events.

奖牌数量(枚) Number of medals	学生人数 Number of students
1	3
2	10
3	5
4	2

表 1 / *Table* 1

哪个饼分图显示表 1 的资料?

Which pie chart shows the information shown in Table 1?

22　表 2 显示盒子 A, B, C, D 和 E 里的玻璃弹珠的数量。

Table 2 shows the number of marbles in five boxes A, B, C, D and E.

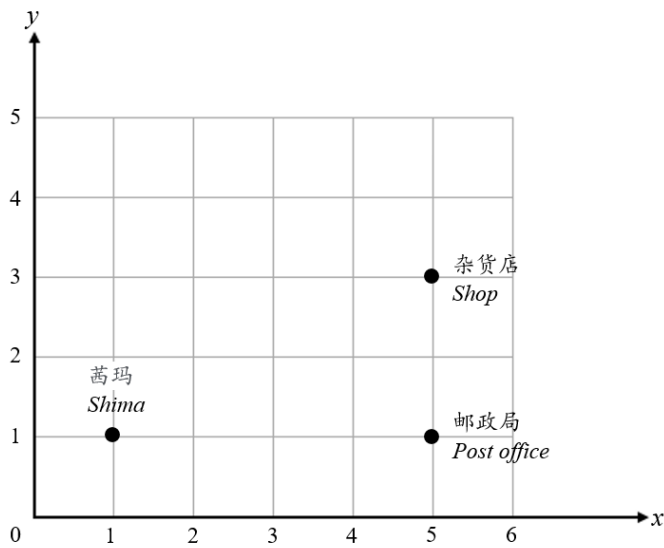| Box 盒子	A	B	C	D	E
Number of marbles 玻璃弹珠数量	**100**	**150**	**140**	**110**	**120**

表 2 / *Table* 2

盒子里有红，蓝和黄三种颜色的玻璃弹珠。红色玻璃弹珠占总数的 70%，蓝色玻璃弹珠占其余的 $\frac{2}{3}$，剩下的都是黄色玻璃弹珠。计算红色玻璃弹珠和黄色玻璃弹珠的差。

In a box of red, blue and yellow marbles, 70% of the total number of marbles are red, $\frac{2}{3}$ of the remaining marbles are blue and the rest is yellow. Calculate the difference between the number of red marbles and the number of yellow marbles.

A　124　　　　　**B**　310　　　　　**C**　372　　　　　**D**　434

23 图 5 的笛卡尔平面图显示茜玛、邮政局和杂货店的位置。

Diagram 5 is a Cartesian plane which shows the locations of Shima, post office and shop.

图 5 / Diagram 5

标度：1 个单位代表 2 km
Scale: 1 unit represents 2 km

茜玛去杂货店途径邮政局。以 km 为单位，计算茜玛去杂货店所经过的距离。

Shima goes to the shop via the post office. Calculate the distance, in km, of Shima's journey to the shop.

A 14 **B** 12 **C** 10 **D** 8

24 表 3 显示阿里每个月的开支。

Table 3 shows the monthly expenses of Ali.

膳食 Food and beverages	RM 800
汽车贷款 Car loan	收入的 $\frac{1}{8}\left(\frac{1}{8}\ \text{of salary}\right)$
租金 Rental	RM500
保险 Insurance	RM390
娱乐 Entertainment	RM200

表 3 / Table 3

阿里每个月的薪水是 RM4 200。扣除所有开支后，剩余的 $\frac{2}{3}$ 给了父母，剩下的就是他每个月的积蓄。请问他每个月储蓄多少钱?

Ali earns RM4 200 per month. After deducting all the above expenses, Alex gives $\frac{2}{3}$ of the remaining money to his parents and the rest will be his monthly saving. How much can he save per month?

A RM595 **B** RM1190 **C** RM1715 **D** RM2485

25   表 4 显示 4 个容器里的果汁容量。容器 B 和容器 C 的果汁容量没有显示出来。

Table 4 shows the volume of juice in four containers. The volumes of juice in container B and container C are not shown.

容器 Container	容量(*l*) Volume (*l*)
A	60
B	
C	
D	55

表 4 / *Table* 4

4 个容器的果汁的平均容量是 65 *l*。如果容器 B 的果汁容量比容器 A 的果汁容量多 20 *l*。计算容器 C 的果汁容量。

The average volume of juice in the four containers is 65 *l* . If the volume of juice in container B is more than the volume of juice in container A by 20 *l* , what is the volume of juice in container C?

A   65 *l*   **B**   70 *l*   **C**   75 *l*   **D**   85 *l*

乙组：简答题(25%)

Section B: Subjective Questions (25%)

- **全部** 5 题必须作答。 *Answer **all** the FIVE questions.*

- 答案须清楚写在试题中指定的地方。 *Write your answers clearly in the blanks provided.*

- 写出计算的步骤,这可帮助你获取分数。 *Show your working, it may help you to get marks.*

- 每个试题的分数都显示在括号内。 *Marks allocated for each question are shown in brackets.*

1   一个长方形与一个正方形的周长相等。长方形的长度 10 cm ，宽度 4 cm。

The perimeter of a square and a rectangle are the same. The length and the width of the rectangle are 10 cm and 4 cm respectively.

(a)   哪个图形的面积比较大？   [4分]

Which figure has a larger area?   [4 *marks*]

演算 Working

答案(Answer)：**1(a)** _____ 的面积比较大// _____ has a larger area

(b)   两个图形的面积相差多少？   [1 分]

Find the difference between these two areas.   [1 *mark*]

演算 Working

答案(Answer)：**1(b)** _____

2 图 1 显示一个长方形被分成数个大小相同的部分。

Diagram 1 shows a rectangle which is divided into a number of equal parts.
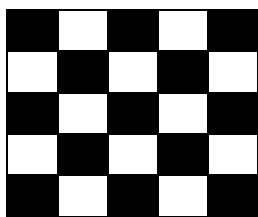

图 1 / *Diagram* 1

(a) 写出涂黑部分占全图的分数。 [1 分]

Write down the fraction of the shaded parts of the whole diagram. [1 *mark*]
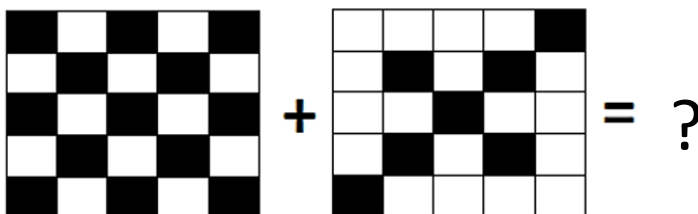
答案(Answer)：2(a) _____

(b) 将**(a)**答案的分数化为小数。 [2 分]

Change your answer in **(a)** into a decimal. [1 *mark*]

演算 Working

答案(Answer)：2(b) _____

(c) 请找出一下所涂黑部分之分数的总和。将答案化成**最简分数**。 [3 分]

Find the sum of the fraction of the shaded parts represented in the diagram below. Convert your answer into the **simplest fraction**. [3 *marks*]

演算 Working

答案(Answer)：2(c) _____

3 图 2 显示张先生与银行职员的对话。

Diagram 2 shows a conversation between Mr. Chong and a bank staff.

我要把 RM12 000 存在定期户头一年。利息怎么算呢？

I want to deposit RM12 000 in a fixed deposit account for one year. How much is the interest?

张先生 Mr. Chong

我们银行有两种配套。**配套一**是前半年的年利率为 2%，后半年的年利率为 2.2%，以单利计算。**配套二**是一整年， 年利率为 2.3%。

Our bank offers two packages. **Package 1** gives an annual interest rate of 2% in the first half year and 2.2% in the second half year, based on simple interest. For **Package 2**, the annual interest rate for one year is 2.3%.

银行职员 Bank staff

图 2 / *Diagram* 2

(a) 根据银行职员所提供的资料，各别计算张先生把这笔钱存在定期户头一年后所得的利息各为多少。 [3分]

Based on the information provided by the bank staff, calculate the interest Mr. Chong will earn after depositing the sum of money in that bank after one year for the two packages. [3 *marks*]

演算 Working

答案(Answer)：**3(a)** 配套一/Package 1:RM_____配套**二**/Package 2: RM_____
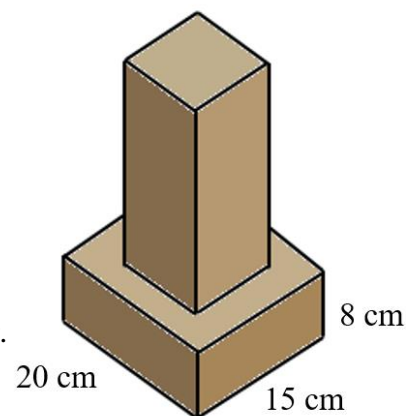
(b) 如果你是张先生，你会选那种配套？为什么？ [2分]

If you are Mr. Chong, which package would you choose? Why? [2 *marks*]

答案(Answer)：**3(b)** 我会选**配套**_____ 因为_____

I will choose **Package** _____ because _____

12

4 图 3 显示一学生所制作的模型建筑物。上层模型是一个长方体，

它的底部面积是下层底部面积的 $\frac{1}{3}$。它的高是宽的两倍。

Diagram 3 shows a model building made by a student. The upper

layer of the model is a **cuboid.** Its base area is $\frac{1}{3}$ that of the lower layer.

Its height is twice its width.

计算模型建筑物 Calculate, for the model building,

图　3 / *Diagram 3*

8 cm

20 cm

15 cm

(a) 上层模型的体积； [3分]

volume of the upper layer of the model. [3 *marks*]

演算 Working

答案(Answer)：4(a) _____

(b) 下层模型的体积。

因此，写出模型建筑物的总体积。 [2分]

volume of the lower layer of the model.

Hence, write down the total volume of the model building. [2 *marks*]

演算 Working

答案(Answer)：4(b) _____

5　图 4 显示 4 个烧杯里水的体积。
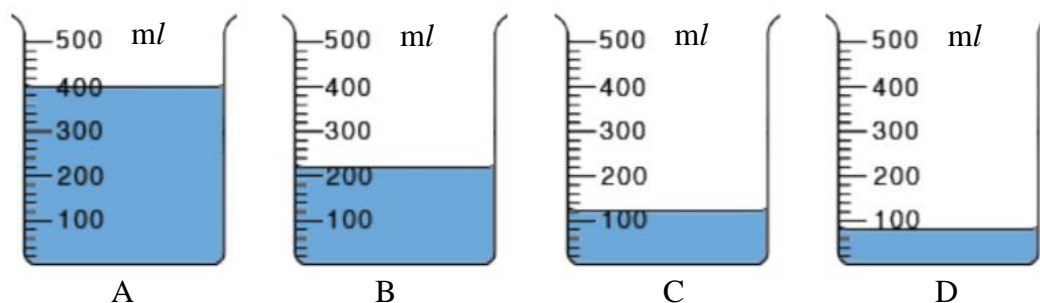
Diagram 4 shows the volume of water in 4 beakers.

| A | B | C | D |

图 4 / Diagram 4

(a)　以 m*l* 为单位，计算 4 个烧杯里水的总体积。　　　　　　　　　　　　　[2 分]

　　　　Calculate the total volume, in m*l* , of water in the four beakers.　　　　[2 *marks*]

演算 Working

答案(Answer)：5(a) _____

(b)　以 *l* 为单位，计算水的平均体积。　　　　　　　　　　　　　　　　　[2 分]

　　　　Calculate the average volume of water, in *l*.　　　　　　　　　　　[2 *marks*]

演算 Working

答案(Answer)：5(b) _____

(c)　一学生从烧杯 C 里倒出 20%的水。以 m*l* 为单位，计算这个烧杯里剩余的水的体积。[1 分]

　　　　A student pours out 20% of the water from beaker C. Calculate the volume, in m*l* , of the remaining
　　　　water in that beaker.　　　　　　　　　　　　　　　　　　　　[1 *mark*]

演算 Working

答案(Answer)：5(c) _____

14

甲组 Section A

1.	B	2.	C	3.	C	4.	A	5.	C
6.	C	7.	C	8.	A	9.	D	10.	D
11.	A	12.	B	13.	D	14.	B	15.	D
16.	A	17.	D	18.	D	19.	D	20.	D
21.	B	22.	C	23.	B	24.	A	25.	A

乙组 Section B

1. (a) **正方形**的面积比较大 // The **square** has a larger area

   (b) 40 cm^2

2. (a) $\frac{13}{25}$ (b) 0.52   (c) $\frac{4}{5}$

3. (a) 配套一 / Package 1: RM **252**   配套二 / Package 2: RM **270**

   (b) 我会选 **配套二** 因为 **可以获得较多利息。**

   I will choose **Package 2** because **more interest can be obtained.**

4. (a) 2 000 cm^3 (b) 2 400 cm^3 ; 4 400 cm^3

5. (a) 820 ml (b) 205 ml (c) 96 ml