

# 2011 年全港性系統評估(小學) 便覽

**Territory-wide System Assessment 2011  
(Primary Schools)  
Quick Guide**

## 第四部分 Part 4

**數學科  
Mathematics**

## 甲. 小學三年級

### 一. 評估範圍

小學三年級數學科的系統評估：

- 參照

《數學課程指引（小一至小六）二零零零年》及  
《數學課程第一學習階段終結的基本能力(試用稿)》

這兩份文件的有關內容而擬題。

- 針對小學一至三年級課程內的基礎和重要部分，在概念、知識、技能和應用各方面作重點評估。
- 涵蓋「數」、「度量」、「圖形與空間」及「數據處理」四個範疇的內容。

### 二. 評估形式

本科的評估以紙筆形式進行。由於需要比較全面的覆蓋第一學習階段的評估範圍，全卷設題數目較多，分為四張分卷，每名學生只需作答其中的一張，限時四十分鐘。每張分卷各自涵蓋「數」、「度量」、「圖形與空間」及「數據處理」四個範疇，設有三十餘條題目，部分題目包含分題。

範疇	分卷			
	分卷一	分卷二	分卷三	分卷四
數、度量、圖形與空間及數據處理	40 分鐘	40 分鐘	40 分鐘	40 分鐘

在題型方面，卷內包含多種常見類型的題目，有客觀性的，例如多項選擇題，學生須從題目中選擇答案；也有開放式的，例如填充題、列式計算題等，學生須自行填寫答案，或列寫橫式、文字解說、題解等。

### 三. 題目示例

以下提供的題目示例僅屬舉隅，旨在讓教師及有關人士了解評估的命題方向，這些示例並不代表評估中的所有命題模式及題型。

#### 「數」範疇

1. 在空格裏填上適當的數字，使算式成立。

$$72\,364 = 70\,000 + 2\,000 + \boxed{\phantom{000}} + 60 + 4$$

2.  $524 \times 5 = \underline{\hspace{2cm}}$

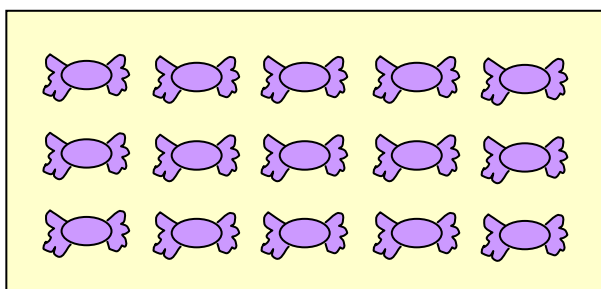
3.  $240 + 60 \times 6 = \underline{\hspace{2cm}}$

4. 小盆栽每盆 25 元，花店平均每天售出 8 盆，一星期共得多少元？

(選出正確的答案，並用 **HB** 鉛筆把該選項的圓圈塗黑和塗滿。)

- A. 40 元
- B. 175 元
- C. 200 元
- D. 1400 元

5. 一盒糖有 15 粒，美美取了  $\frac{1}{3}$ ，芬芬取了  $\frac{1}{5}$ ，誰取得較多？她取了多少粒？



答案： \_\_\_\_\_ 取得較多，她取了 \_\_\_\_\_ 粒。

6.



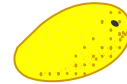
\$2



\$3



\$9

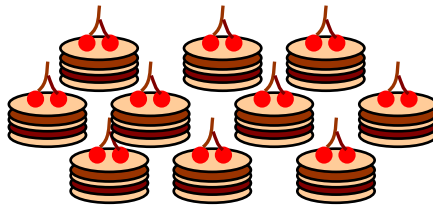


\$5

媽媽到市場買水果。她買了 8 個芒果，付 100 元紙幣，應找回多少元？

(列式計算)

7.



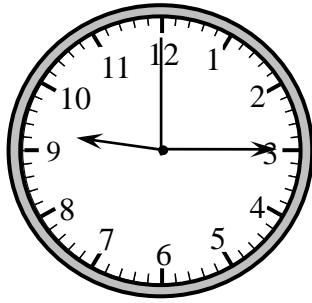
西餅每件 5 元

西餅每件 5 元，陳先生有 153 元，他最多可買西餅多少件？

(列式計算)

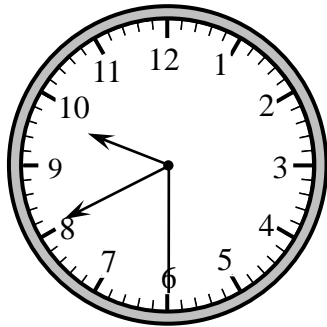
「度量」範疇

8. 小明從早上



開始做數學練習，

到早上



完成練習。

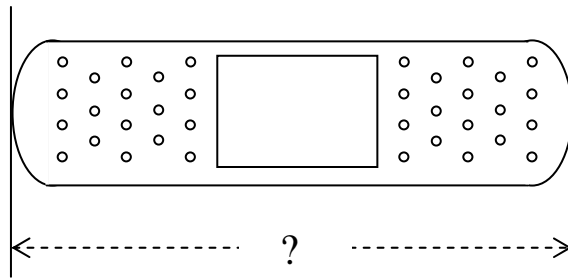
(a) 在空格內填上鐘面顯示的時間。

開始時間：上午 \_\_\_\_\_ 時 \_\_\_\_\_ 分

完成時間：上午 \_\_\_\_\_ 時 \_\_\_\_\_ 分 \_\_\_\_\_ 秒

(b) 他共用了 \_\_\_\_\_ 分 \_\_\_\_\_ 秒完成數學練習。

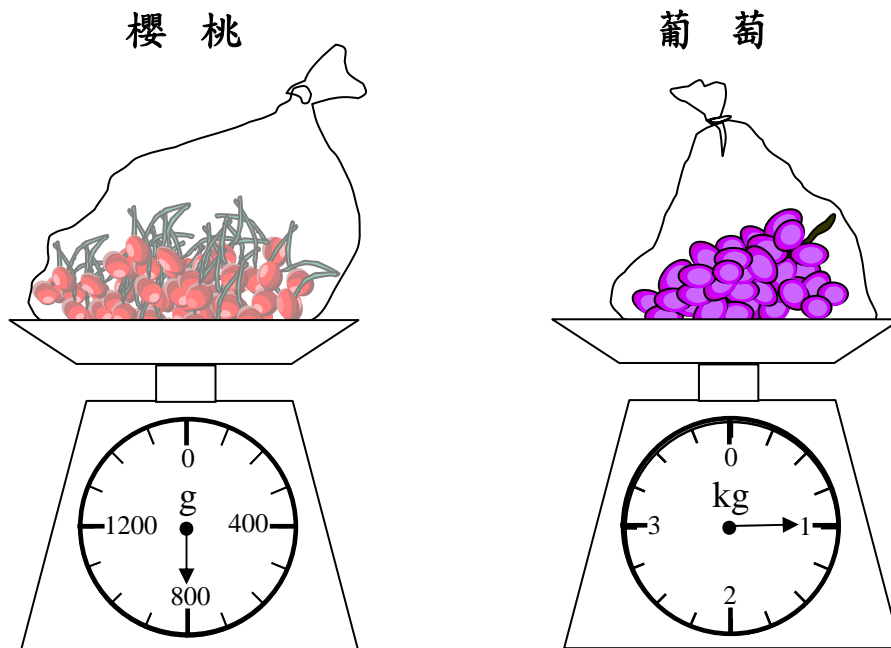
9.



用尺子量度上圖藥水膠布的長度。（答案須寫上單位）

答案：藥水膠布的長度是 \_\_\_\_\_。

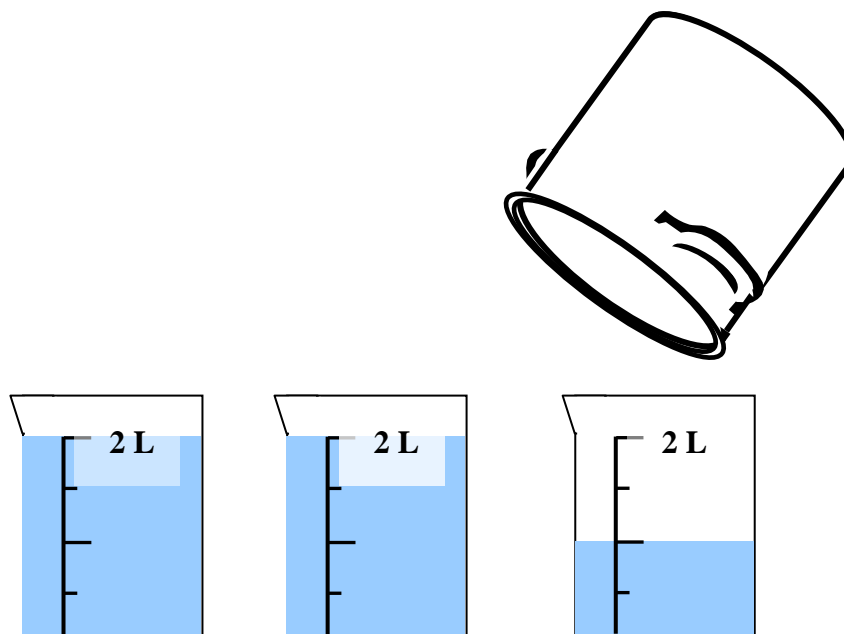
10. 根據圖意，比較下列兩袋水果的重量。



較重的一袋水果是\* 櫻桃 / 葡萄。(\*圈出答案)

它比另一袋水果重 \_\_\_\_\_ g。

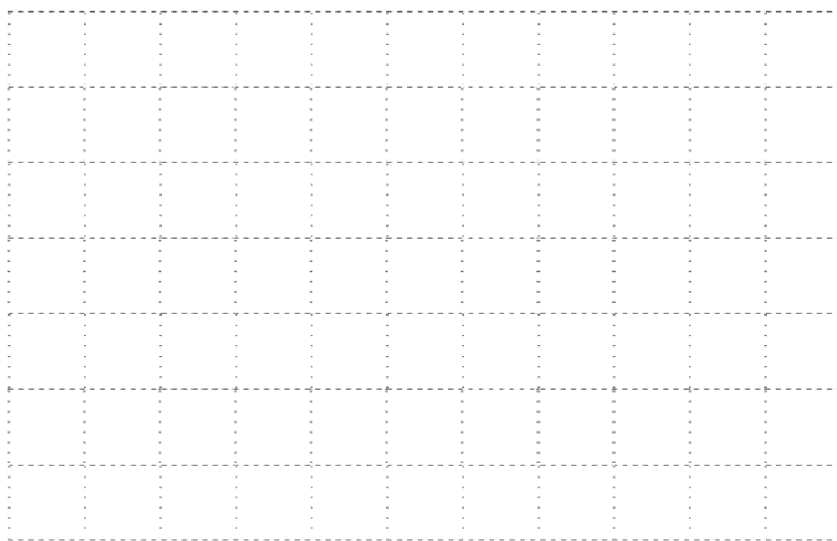
11.



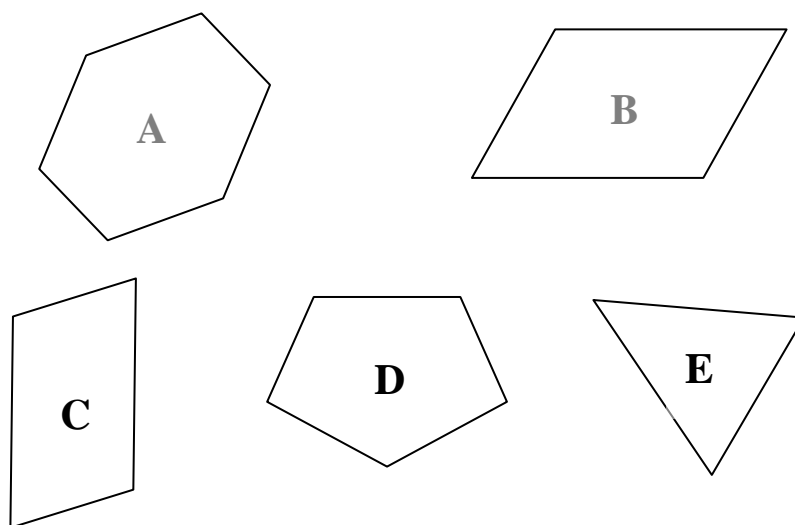
媽媽要量度湯鍋的容量。她先把湯鍋注滿水，然後把水倒進量杯內量度。湯鍋的容量是 \_\_\_\_\_ L。

「圖形與空間」範疇

12. 在下面的方格紙上畫一個梯形。



13.



(a) 上面哪個圖形是六邊形？

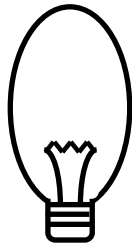
答案：\_\_\_\_\_

(b) 上面哪些圖形是平行四邊形？

答案：\_\_\_\_\_



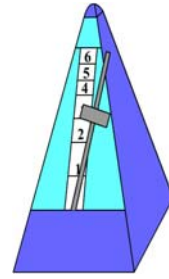
14.



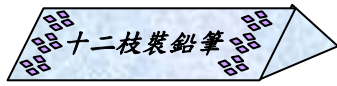
A



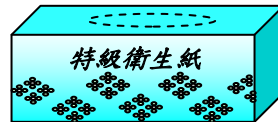
B



C



D



E

(a) 列出上圖中的錐體。

答案：\_\_\_\_\_

(b) 列出上圖中的柱體。

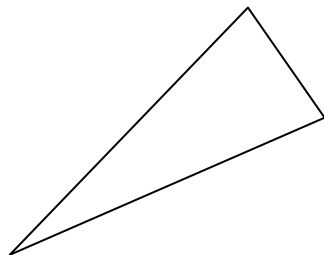
答案：\_\_\_\_\_

(c) 列出上圖中的球體。

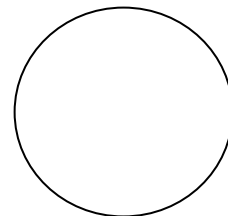
答案：\_\_\_\_\_

15. 寫出下列各平面圖形的名稱。

(a)



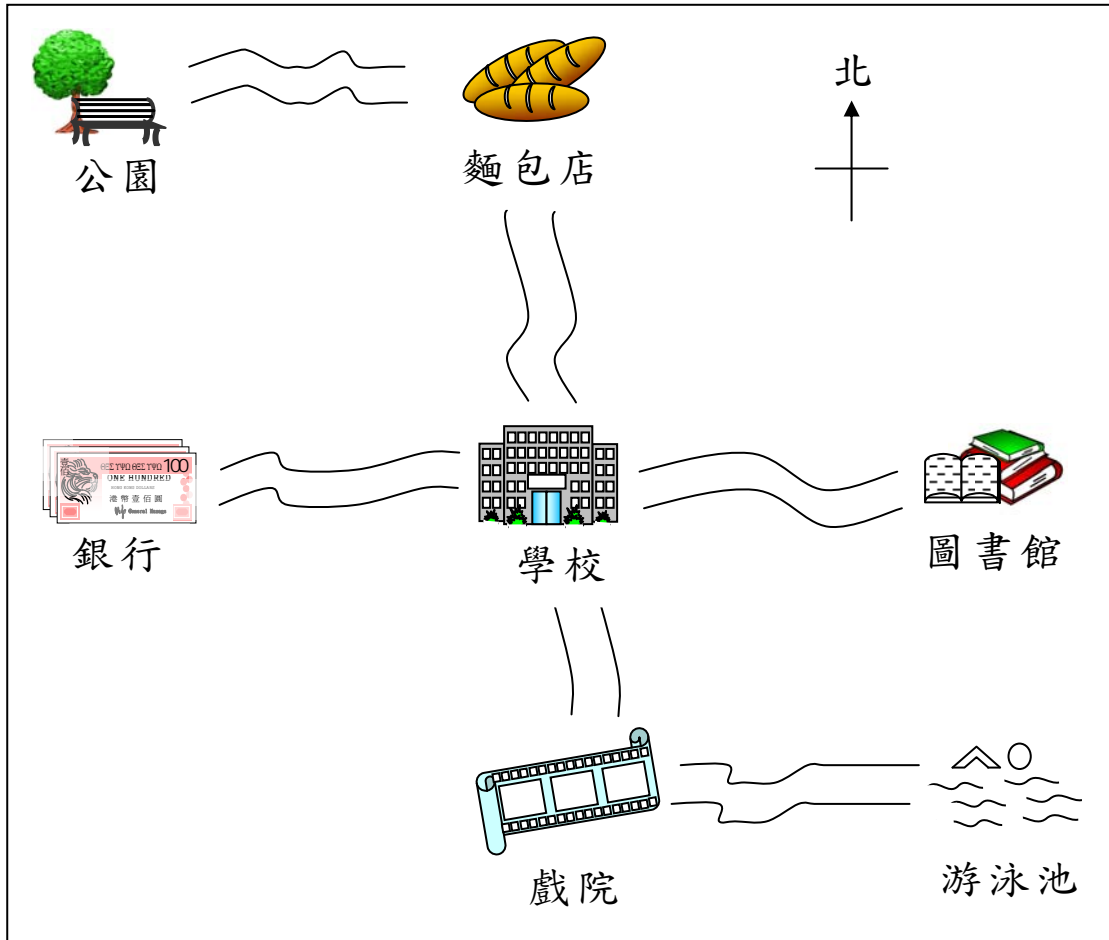
(b)



答案：\_\_\_\_\_

答案：\_\_\_\_\_

16. 下圖是學校附近的環境。



在橫線上寫上方向：

- (a) 戲院在學校的 \_\_\_\_\_ 方。
- (b) 小明要由學校出發到公園去，他先向 \_\_\_\_\_ 方走，再向 \_\_\_\_\_ 方走便可到達。
- (c) 圖書館在銀行的 \_\_\_\_\_ 方。

## 「數據處理」範疇

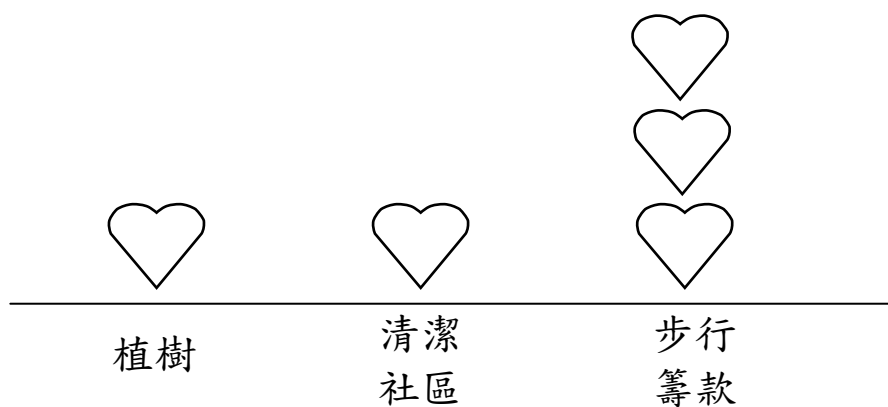
17. 老師統計去年全校各班參與關懷社區活動的情況。

活動名稱	植樹	清潔社區	步行籌款
班數	4	3	7

根據統計結果，以 1 個  代表一班，完成以下的象形圖。

### 參與關懷社區活動的情況

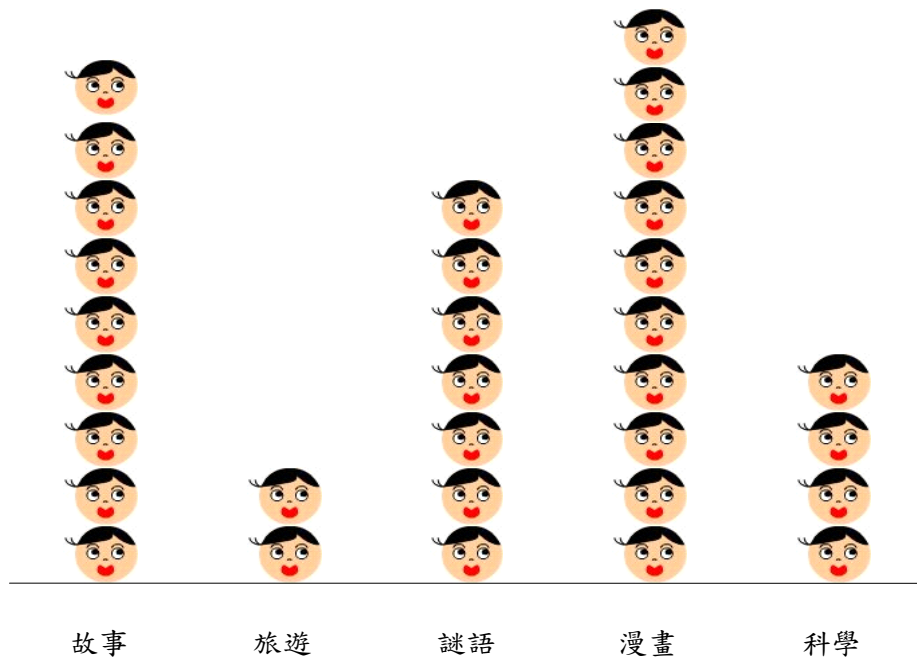
1 個  代表 1 班



18. 詠兒統計三乙班同學喜愛閱讀的課外書，製成象形圖。

### 三乙班同學喜愛閱讀的課外書

每個  代表 1 人



(a) 哪類書最受同學歡迎？

答案：\_\_\_\_\_ 書最受同學歡迎。

(b) 喜愛閱讀科學書和謎語書的同學相差多少人？

答案：相差 \_\_\_\_\_ 人。

建議答案：

1. 300

2. 2 620

3. 600

4. D

5. 依次為 美美，5

6. 應找回

$$\begin{aligned} & 100 - 5 \times 8 \\ &= 100 - 40 \\ &= 60 \text{ (元)} \end{aligned}$$

7.  $153 \div 5$   
 $= 30 \cdots 3$

他最多可買西餅 30 件。

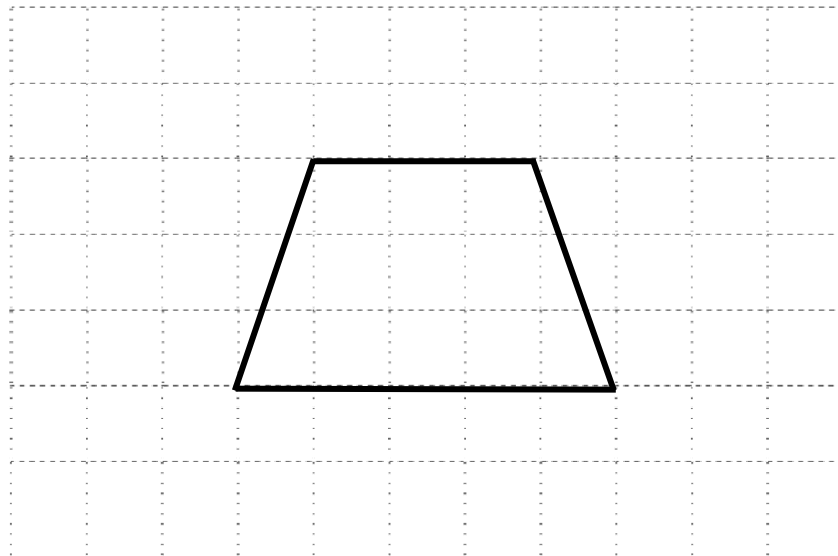
8. (a) 上午 9 時 15 分  
上午 9 時 40 分 30 秒  
(b) 25 分 30 秒

9. 68 至 72 毫米

10. 依次為 葡萄，200

11. 5

12. 畫出一個梯形，例如



13. (a) A  
(b) B，C

14. (a) C  
(b) D, E  
(c) B
15. (a) 三角形 (不接受錯別字)  
(b) 圓 (不接受錯別字)
16. (a) 南 (不接受錯別字)  
(b) 依次為 北, 西 (不接受錯別字)  
(c) 東 (不接受錯別字)
17. 依次有 4、3、7 個圖形
18. (a) 漫畫  
(b) 3

**備註：**如答案涉及數學專用名詞（包括平面圖形或立體圖形的名稱、度量單位的名稱或符號、四個方向的名稱等），中文錯別字和英文錯拼字可能會不被接受為正確答案。

## 乙. 小學六年級

### 一. 評估範圍

小學六年級數學科的系統評估：

- 假設學生已掌握第一學習階段內的基本能力。
- 參照

《數學課程指引（小一至小六）二零零零年》及  
《數學課程第二學習階段終結的基本能力（試用稿）》

這兩份文件的有關內容而擬題。

- 主要針對小學四至六年級課程內的基礎和重要部分，在概念、知識、技能和應用各方面作重點評估。
- 涵蓋「數」、「度量」、「圖形與空間」、「數據處理」及「代數」五個範疇的內容。
- 不會對第一學習階段內的所有基本能力作重點評核，但學生需應用有關的知識和技能於解答此評估中的題目。

### 二. 評估形式

本科的評估以紙筆形式進行。由於需要比較全面的覆蓋第二學習階段的評估範圍，全卷設題數目較多，分為四張分卷，每名學生只需作答其中一張，限時五十分鐘。每張分卷各自涵蓋「數」、「度量」、「圖形與空間」、「數據處理」及「代數」五個範疇，設有四十餘條題目，部分題目包含分題。

分卷 範疇	分卷一	分卷二	分卷三	分卷四
數、度量、圖形與空間、數據處理及代數	50 分鐘	50 分鐘	50 分鐘	50 分鐘

在題型方面，卷內包含多種常見類型的題目，有客觀性的，例如多項選擇題，學生須從題目中選擇答案；也有開放式的，例如填充題、列式計算題等，學生須自行填寫答案，或列寫橫式、方程、文字解說、題解等。

### 三. 題目示例

以下提供的題目示例僅屬舉隅，旨在讓教師及有關人士了解評估的命題方向，這些示例並不代表評估中的所有命題模式及題型。

#### 「數」範疇

1.  $23.04 - (6.79 + 11.57) =$

(選出正確的答案，並用 **HB** 鉛筆把該選項的圓圈塗黑和塗滿。)

A. 4.68

B. 4.78

C. 5.68

D. 5.78

2.  $4 - 1\frac{5}{6} \div \frac{2}{3} =$

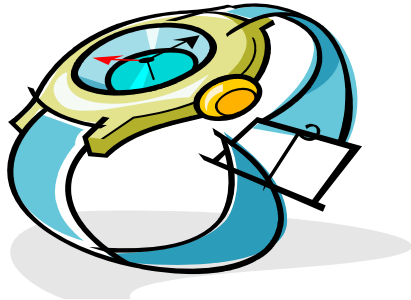


3. 把下列各數由大至小排列出來。

$$\boxed{83\%}, \quad \boxed{\frac{5}{6}}, \quad \boxed{8.3}$$

答案：  >  >

4.



~~300 元~~  
八折出售

一隻手錶的原價是 300 元，大減價時，小明以八折買得該手錶，問他需付款多少？

(列式計算)

5. 寫出 18 及 24 的所有公因數。

答案： \_\_\_\_\_


6. 一枝筆重 9.5 g。140 枝筆共重 \_\_\_\_\_ kg。

7. 以下哪個數式的數值是最大？

(選出正確的答案，並用 **HB** 鉛筆把該選項的圓圈塗黑和塗滿。)

- A.  $80 - 92 \times 50\%$
- B.  $80 - 92 \times 60\%$
- C.  $80 - 98 \times 60\%$
- D.  $80 - 98 \times 50\%$

8.

護脊大行動 

要求：書包不可超過體重的 15%

小玲的體重是 30 公斤，而她的書包重量是 5.1 公斤。小玲的書包是否達到活動的要求？為什麼？

答案：\* 是 / 否 (\*圈出答案)，因為 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

「度量」範疇

9.



以上兩個容器的容量相差 \_\_\_\_\_ mL。

10. 下圖中，ABCD 是一個長方形。



(a) 用尺子量度這個長方形的長和闊（答案取至最接近的 cm）。

答案：長是 \_\_\_\_\_ cm；闊是 \_\_\_\_\_ cm

(b) 求長方形的面積。

答案：長方形的面積是 \_\_\_\_\_  $\text{cm}^2$ 。

11. 在上午 11 時 50 分，經理吩咐秘書張小姐打一封長 600 字的信件。若張小姐的打字速度是每分鐘 40 字，她將在什麼時候完成工作？

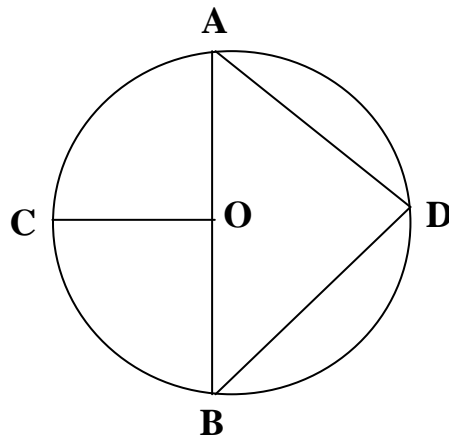
（列式計算）

「圖形與空間」範疇

12. 哪幾種四邊形有兩對相等及平行的對邊？

答案：\_\_\_\_\_

13.

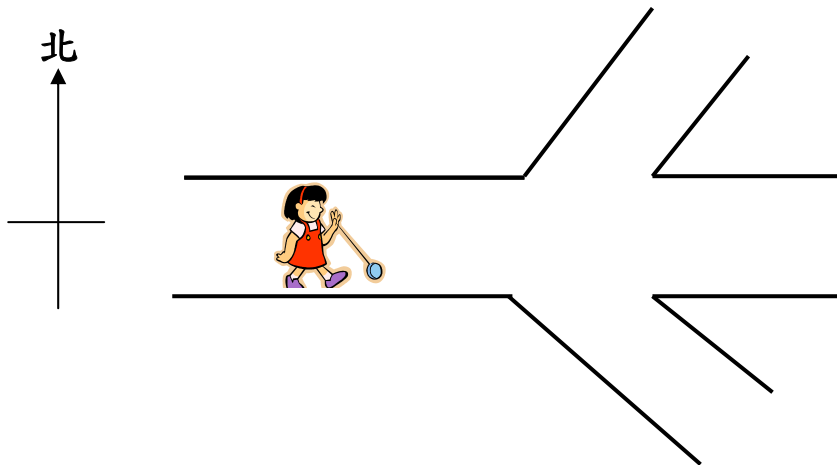


上圖中，O 是圓心，AOB 是一直線。線段  的長度是 OC 的 2 倍。

14. 哪種立體圖形有四個頂、六條稜和四塊面？

答案：\_\_\_\_\_

15.



小美正向東走，到分叉路口時轉向右，她將往哪一個新方向走？

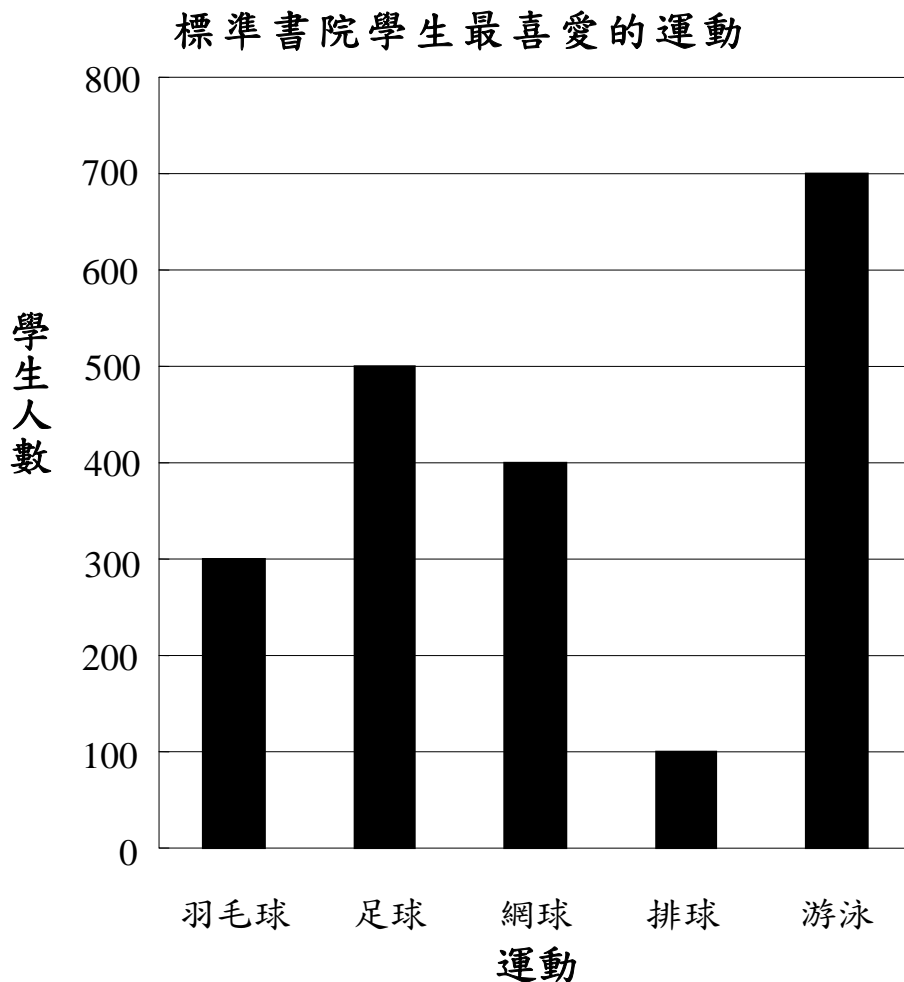
(選出正確的答案，並用 **HB** 鉛筆把該選項的圓圈塗黑和塗滿。)

- A. 北
- B. 東北
- C. 東南
- D. 西南

「數據處理」範疇

16. 偉華、穎芝和大光的體重分別是 62 kg、40 kg和 54 kg，他們的平均體重是 \_\_\_\_\_ kg。

17. 以下的棒形圖顯示標準書院學生最喜愛的運動。



(a) 哪類運動是學生最喜愛的？

答案：學生最喜愛的運動是 \_\_\_\_\_。

(b) 標準書院共有學生多少人？

答案：標準書院共有學生 \_\_\_\_\_ 人。

(c) 最喜愛足球的學生人數佔全院學生的百分之幾？

答案：佔全院學生的 \_\_\_\_\_ %。

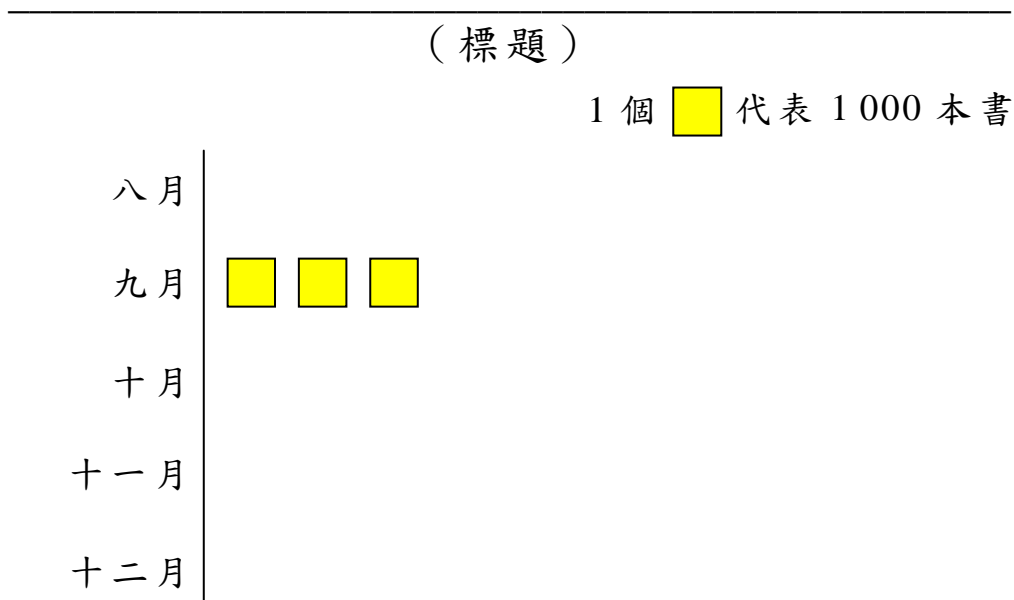
18. 下表顯示通適書局在八月至十二月的書籍銷售量。

月份	書籍銷售量 (本)	書籍銷售量 (本) (取至千位)
八月	6 880	
九月	2 953	3 000
十月	2 409	
十一月	3 420	
十二月	4 542	

(a) 完成上表。

(b) 以下的象形圖顯示通適書局在八月至十二月的書籍銷售量(取至千位)。

填上標題，並以 1 個  代表 1 000 本書完成這象形圖。



(c) 根據上列的數據表，八月份和十一月份售出書籍的數量實際相差多少本？

答案：售出書籍的數量實際相差 \_\_\_\_\_ 本。

18. (d) 象形圖中八月份和十一月份售出書籍的數量相差四千本。為什麼(c)部的答案當取至千位時不等於四千本？

答案：\_\_\_\_\_

\_\_\_\_\_

「代數」範疇

19. 志強有 30 元，潔儀比志強多  $x$  元，二人共有多少元？  
(選出正確的答案，並用 **HB** 鉛筆把該選項的圓圈塗黑和塗滿。)

- A.  $\$(30+x)$
- B.  $\$(60+x)$
- C.  $\$(60-x)$
- D.  $\$30x$

20. 解下列方程：

(a)  $23 + x = 37$

$$x = \square$$

(b)  $2y - 10 = 8$

$$y = \square$$

(c)  $4.8 = 1.2 + 6m$

$$m = \square$$

(d)  $11 + \frac{n}{13} = 13$

$$n = \square$$

21. 國文買了一杯售價為 5 元的雪糕和 4 個漢堡飽，共付 45 元。用解方程的方法，求每個漢堡飽的售價。  
(列方程計算)

建議答案：

1. A

2.  $1\frac{1}{4}$

3.  $8.3 > \frac{5}{6} > 83\%$

4. 小明需付款：  
 $300 \times 80\%$   
 $= 240$  (元)

或

減去的款項  $= 300 \times 20\%$   
 $= 60$  (元)

$\therefore$  小明需付款：  
 $300 - 60 = 240$  (元)

5. 1、2、3 及 6 (答案排列次序不拘)

6. 1.33

7. A



8. 否，因為根據活動的要求，小玲的書包應不超過  
 $30 \times 15\% = 4.5$ （公斤）

或

否，因為小玲的書包重量是她體重的  $\frac{5.1}{30} \times 100\% = 17\%$ ，已超過活動的要求。

9. 700

10. (a) 依次為 7；3  
(b) 21

11. 張小姐打字所需的時間 =  $\frac{600}{40} = 15$ （分鐘）

∴張小姐在下午十二時零五分完成工作。

12. 正方形，長方形，平行四邊形，菱形（排列次序不拘，不接受錯別字）

13. AB/BA/AOB/BOA

14. 三角錐體（不接受錯別字）

15. C

16. 52

17. (a) 游泳  
(b) 2 000  
(c) 25


18. (a)

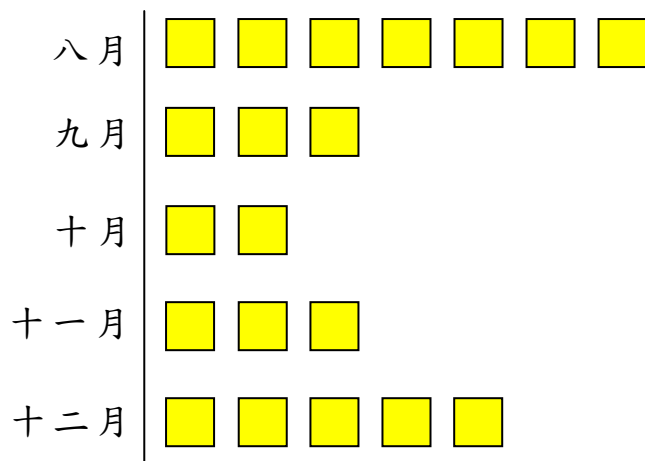
月份	書籍銷售量（本）	書籍銷售量（本） （取至千位）
八月	6 880	<b>7 000</b>
九月	2 953	3 000
十月	2 409	<b>2 000</b>
十一月	3 420	<b>3 000</b>
十二月	4 542	<b>5 000</b>

18. (b)

通適書局在八月至十二月的書籍銷售量

(標題)

1 個  代表 1 000 本書



(c) 3 460

(d) 因為在製作象形圖時，每月的書籍銷售量已被取至千位，所以從象形圖中所讀得的資料與實際的數據有差異。

19. B

20. (a) 14

(b) 9

(c) 0.6

(d) 26

21. 設每個漢堡飽的售價為  $x$  元。

$$5 + 4x = 45$$

$$4x = 40$$

$$x = 10$$

或

$$5 + 4x = 45$$

$$4x = 40$$

$$x = 10$$

∴ 每個漢堡飽的售價是 10 元。

**備註：**如答案涉及數學專用名詞（包括平面圖形或立體圖形的名稱、度量單位的名稱或符號、八個主要方向的名稱等），中文錯別字和英文錯拼字可能會不被接受為正確答案。

## A. Primary 3

### 1. Scope of the Assessment

The Primary 3 Assessment

- is based on
  - the *Mathematics Curriculum Guide (P1 – P6) 2000*; and
  - the *Mathematics Curriculum – The Basic Competency at the end of KSI (Trial Version)*;
- focuses on the basic and important areas of the Primary 1 to 3 curriculum and tests the concepts, knowledge, skills and applications in these areas; and
- covers the four dimensions Number, Measures, Shape & Space and Data Handling.

### 2. Format of the Assessment

The Assessment will be conducted in a paper-and-pencil mode. In order to cover adequately the areas to be assessed in Key Stage 1, a good number of test items will be set for the full paper of the Assessment. This will be divided into 4 sub-papers of 40 minutes each. Each pupil will be required to attempt one of the sub-papers only. Each sub-paper will consist of over 30 test items, covering the four dimensions Number, Measures, Shape & Space and Data Handling. Some of the test items may consist of sub-items.

<b>Sub-paper</b> <b>Dimension</b>	Sub-paper 1	Sub-paper 2	Sub-paper 3	Sub-paper 4
Number, Measures, Shape & Space and Data Handling	40 minutes	40 minutes	40 minutes	40 minutes

In the Assessment, various types of test items will be used. Some are multiple-choice items, which can be marked objectively. Some are open-ended items, in which students have to fill in the blanks, write their own answers or the necessary mathematics expressions, solutions and explanations.

### 3. Examples

Some examples are shown below to illustrate the different types of items set. These examples are by no means exhaustive.

#### Number Dimension

1. Fill in the box with the correct number.

$$72\,364 = 70\,000 + 2\,000 + \boxed{\phantom{000}} + 60 + 4$$

2.  $524 \times 5 = \underline{\hspace{2cm}}$

3.  $240 + 60 \times 6 = \underline{\hspace{2cm}}$

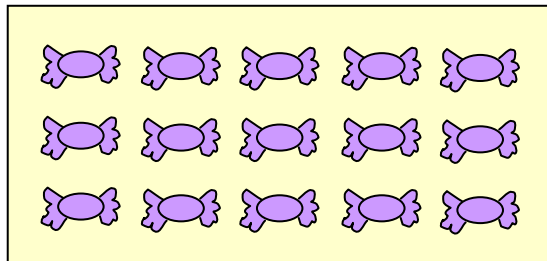
4. A pot of plants costs \$25. On average a shop sells 8 pots of plants each day. How much does the shop make weekly?

(Blacken the circle next to the correct answer with an **HB pencil**.)

- A. \$40
- B. \$175
- C. \$200
- D. \$1 400

5. There were 15 chocolates in a box. Mimi took  $\frac{1}{3}$  and Fanny took  $\frac{1}{5}$ .

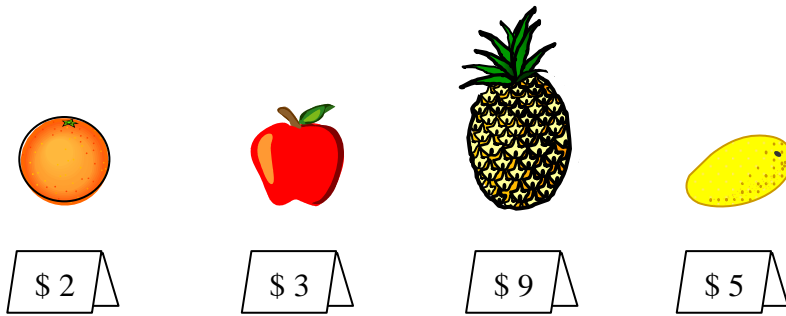
Who took more? How many chocolates did she take?



Answer: \_\_\_\_\_ took more.

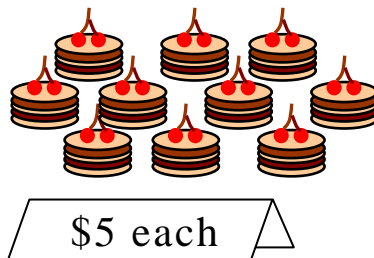
She took \_\_\_\_\_ chocolates.

6.



Mum went to the market shopping fruits. She bought 8 mangoes and paid \$100. What should be the change?  
(Show your working)

7.

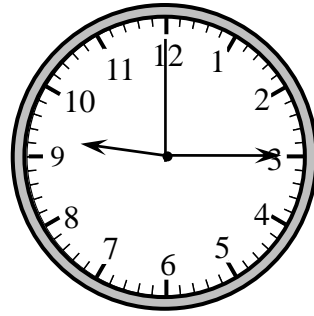


A cake costs \$5. Mr. Chan has \$153. How many cakes can he buy at most?  
(Show your working)

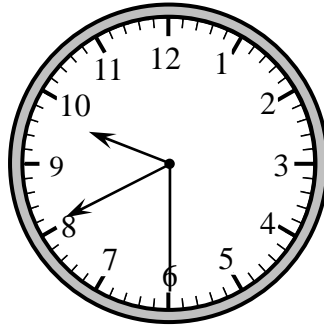
## Measures Dimension

8.

Johnny started doing sums at \_\_\_\_\_ in the



morning and finished at \_\_\_\_\_ in the morning.



(a) Write the time shown by the clocks in the spaces below.

Starting time:

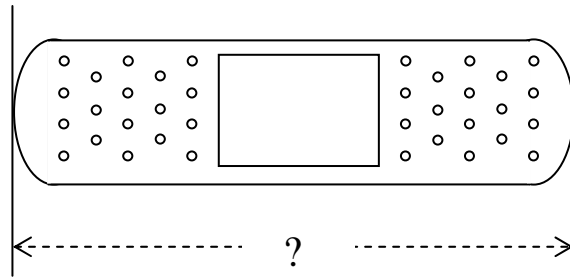
\_\_\_\_\_ in the morning.

Finishing time:

\_\_\_\_\_ in the morning.

(b) He took \_\_\_\_\_ minutes \_\_\_\_\_ seconds to do the sums.

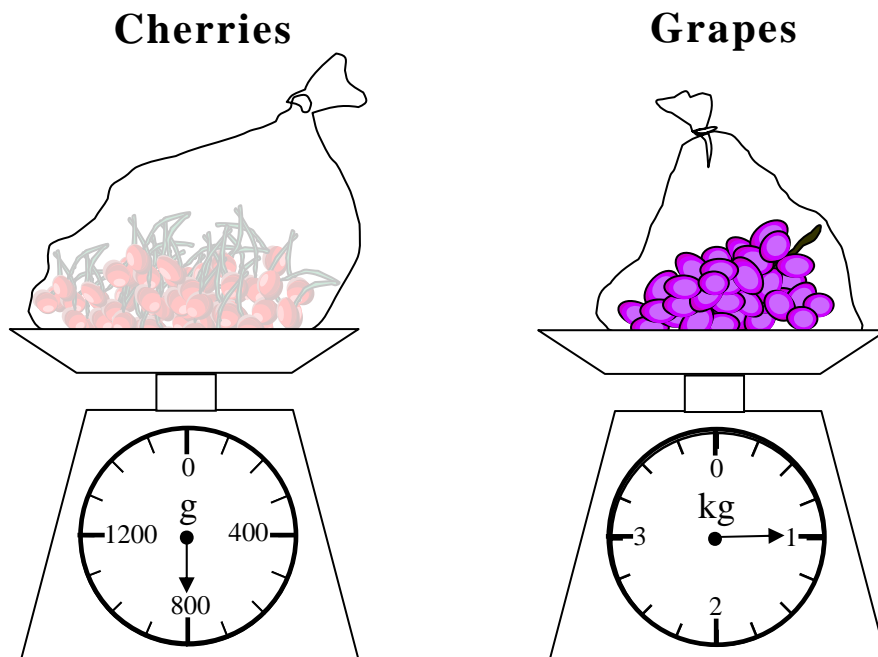
9.



Measure the length of the bandage shown above with a ruler. (Give the answer with a suitable unit)

Answer: The length of the bandage is \_\_\_\_\_ .

10. Look at the diagram. Compare the weights of the two bags of fruit.



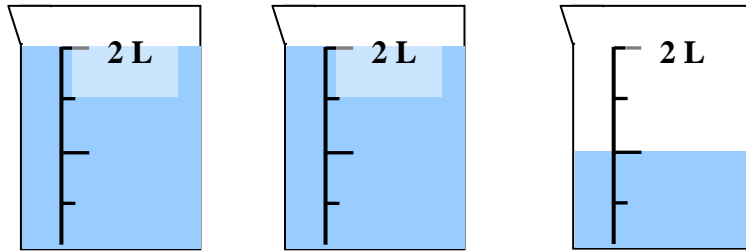
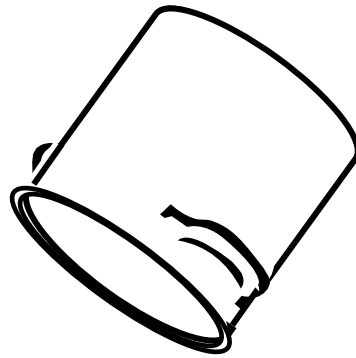
The bag of \* cherries / grapes is heavier.

(\*Circle the answer)

It is heavier than the other bag of fruit by \_\_\_\_\_ g.



11.

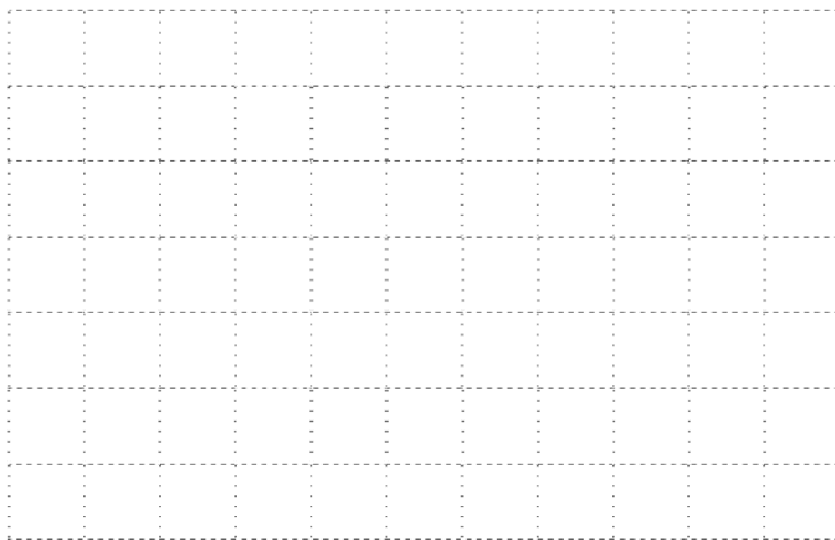


Mother wanted to measure the capacity of a pot. She filled up the pot with water and then poured the water into the measuring cylinders.

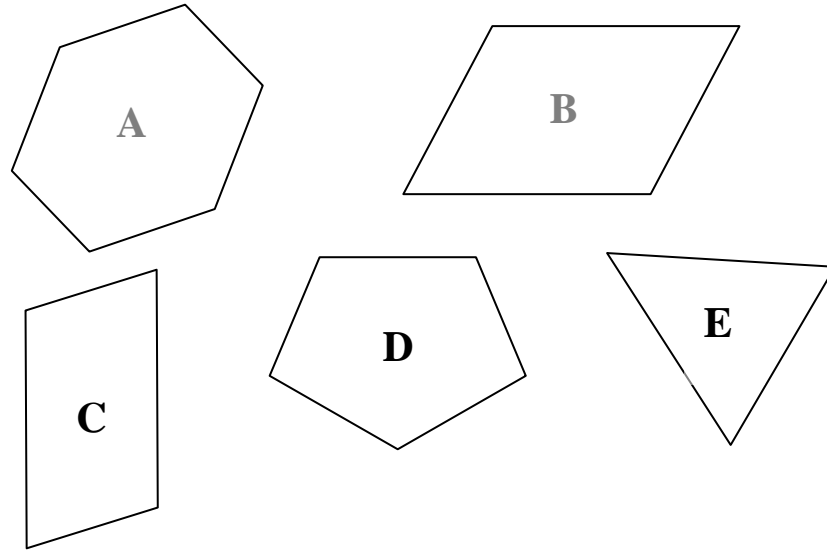
The capacity of the pot was \_\_\_\_\_ L.

### Shape & Space Dimension

12. Draw a trapezium in the squared paper below.



13.



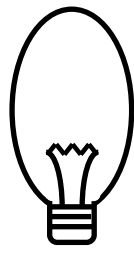
(a) Which of the above figures is a hexagon?

Answer: \_\_\_\_\_

(b) Which of the above figures are parallelograms?

Answer: \_\_\_\_\_

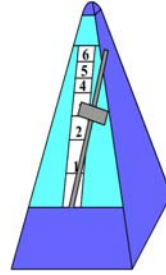
14.



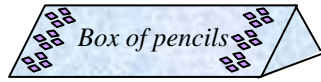
A



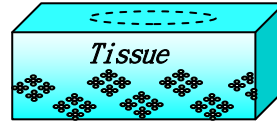
B



C



D



E

(a) Which of the above shapes is a (are) pyramid(s)?

Answer: \_\_\_\_\_

(b) Which of the above shapes is a (are) prism(s)?

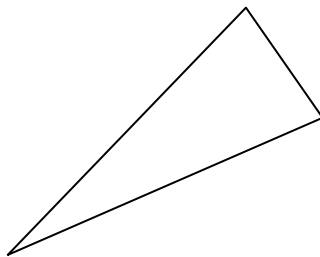
Answer: \_\_\_\_\_

(c) Which of the above shapes is a (are) sphere(s)?

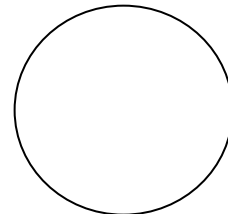
Answer: \_\_\_\_\_

15. Name the following 2-D shapes.

(a)



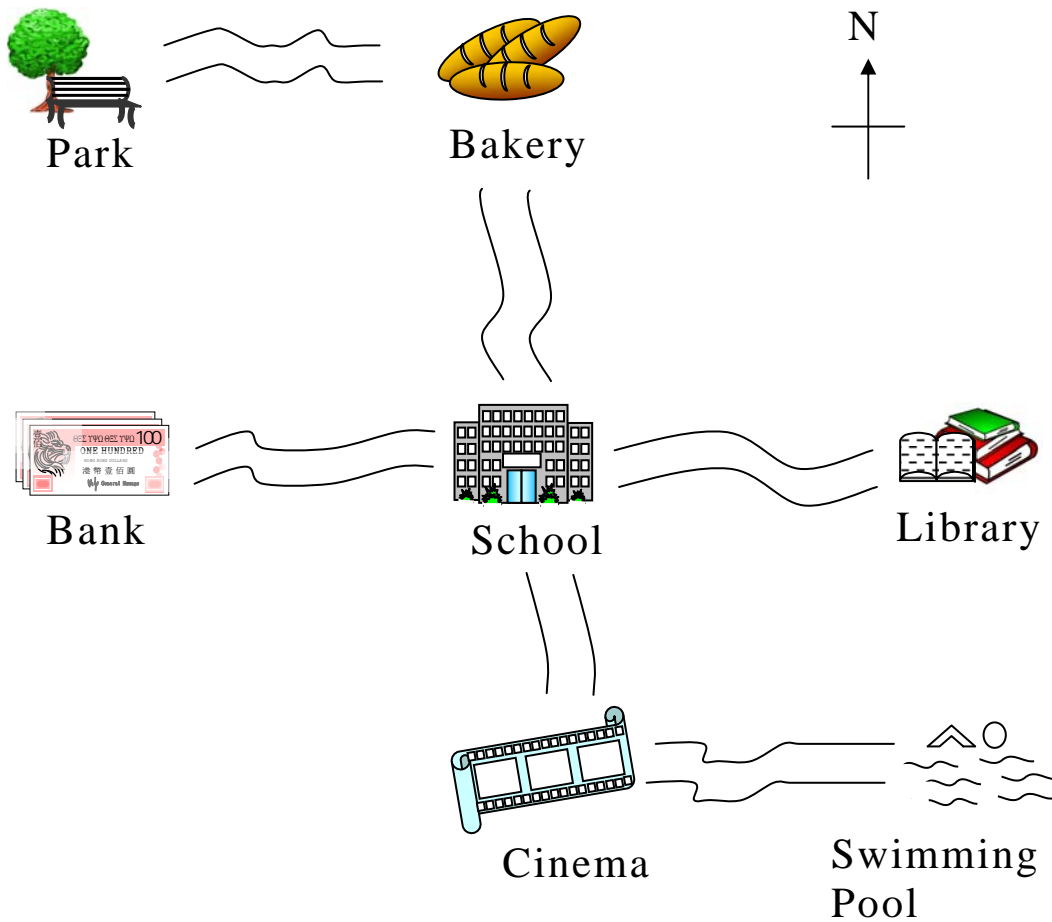
(b)



Answer: \_\_\_\_\_

Answer: \_\_\_\_\_

16. The diagram below shows the school's surroundings.




Fill in the blanks with a direction.

- (a) The Cinema is on the \_\_\_\_\_ of the School.
- (b) Owen wants to go from the school to the Park. He should first go \_\_\_\_\_ and then go \_\_\_\_\_.
- (c) The Library is on the \_\_\_\_\_ of the Bank.


## Data Handling Dimension

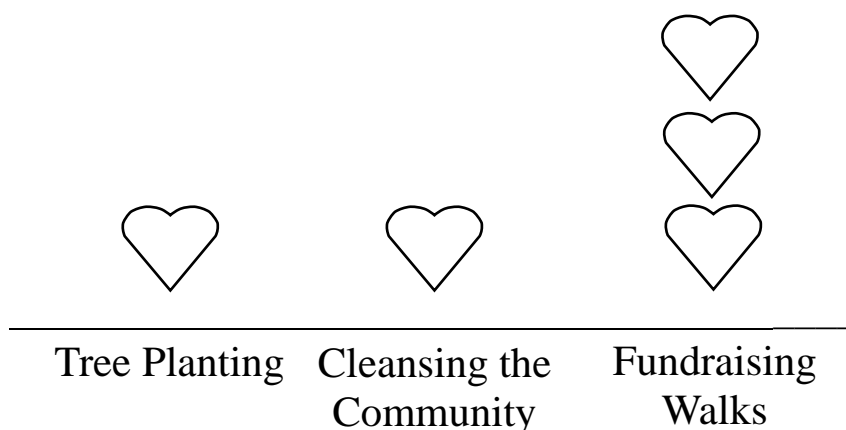
17. In a school, a teacher surveyed the number of classes that had taken part in the “Serve Our Community” activities last year.

Activities	Tree Planting	Cleansing the Community	Fundraising Walks
Number of classes	4	3	7

According to the record, complete the pictogram below using one  to represent 1 class.

### “Serve Our Community” Activities

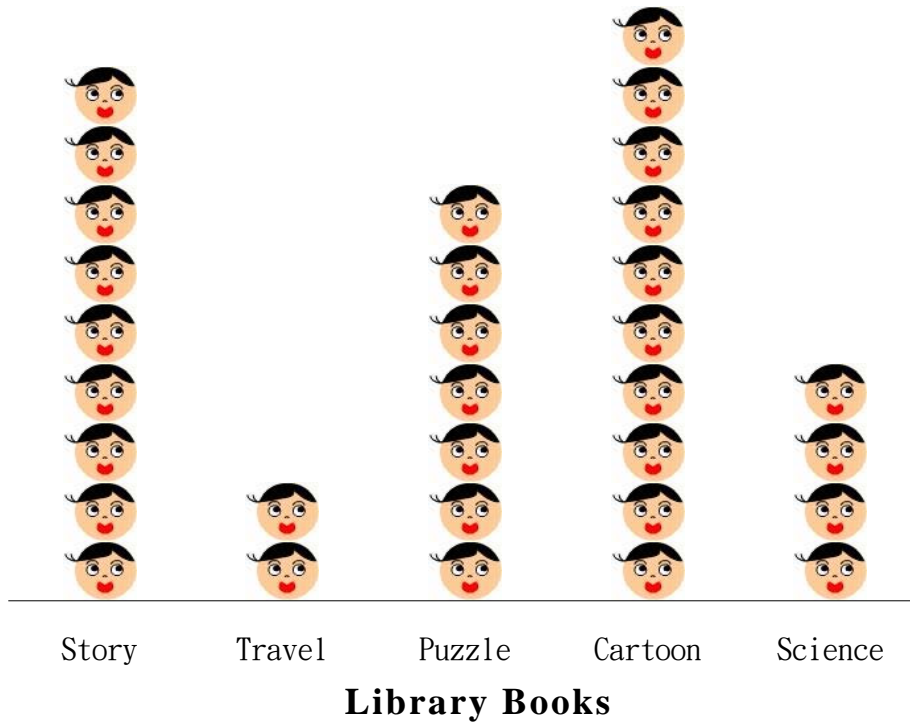
Each  represents 1 class



18. Winnie collected data on the library books that 3B students liked to read and constructed the following pictogram.

### Library books 3B students liked to read

Each  represents one person



(a) What is the students' most favourite kind of library books?

Answer: The students' most favourite kind of library books is \_\_\_\_\_ books.

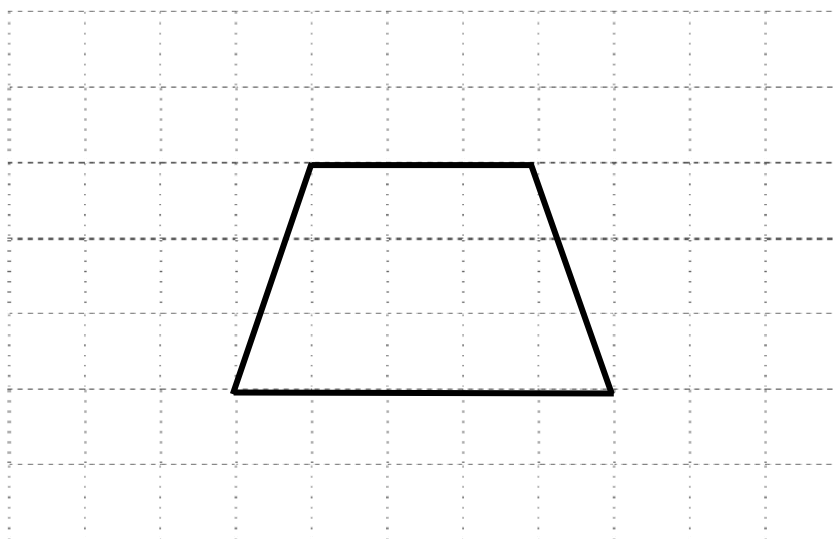
(b) What is the difference in the numbers of students who like reading science books and those who like reading puzzle books?

Answer: The difference is \_\_\_\_\_ .

## Suggested Answers

1. 300
2. 2 620
3. 600
4. D
5. Mimi, 5 respectively
6. The change should be  
 $100 - 5 \times 8$   
 $= 100 - 40$   
 $= 60$  (dollars)
7.  $153 \div 5$   
 $= 30 \cdots 3$   
He can buy 30 cakes at most.
8. (a) nine fifteen in the morning  
(or other common ways of telling the time)  
nine forty and thirty seconds in the morning  
(or other common ways of telling the time)  
(b) 25 minutes 30 seconds
9. 68 to 72 mm
10. Grapes, 200 respectively
11. 5

12. Draw any trapezium, e.g.



13. (a) A  
(b) B, C

14. (a) C  
(b) D, E  
(c) B

15. (a) triangle (do not accept wrong spelling)  
(b) circle (do not accept wrong spelling)

16. (a) south / S (do not accept wrong spelling)  
(b) north / N, west / W (do not accept wrong spelling)  
(c) east / E (do not accept wrong spelling)

17. 4, 3, 7 figures respectively

18. (a) Cartoon  
(b) 3

**Remark:** Wrong spellings and incorrect Chinese characters may not be accepted as correct answers if mathematical terms (including the names of 2-D or 3-D shapes, names or symbols of measurement units, and the four directions) are involved.



## **B. Primary 6**

### **1. Scope of the Assessment**

The Primary 6 Assessment

- assumes pupils already have mastered the Basic Competencies covered in Key Stage 1;
- is based on
  - the *Mathematics Curriculum Guide (P1 – P6) 2000*; and
  - the *Mathematics Curriculum – The Basic Competency at the end of KS2 (Trial Version)* ;
- focuses on the basic and important areas of the Primary 4 to 6 curriculum and tests the concepts, knowledge, skills and applications in these areas;
- covers the five dimensions Number, Measures, Shape & Space, Data Handling and Algebra; and
- may not have items set to test specifically all the Basic Competencies covered in Key Stage 1, but these knowledge and skills may be required to answer the items set in this Assessment.

### **2. Format of the Assessment**

The Assessment will be conducted in a paper-and-pencil mode. In order to cover adequately the areas to be assessed in Key Stage 2, a good number of test items will be set for the full paper of the Assessment. This will be divided into four sub-papers of 50 minutes each. Each pupil will be required to attempt one of the sub-papers only. Each sub-paper will consist of over 40 test items, covering the five dimensions Number, Measures, Shape & Space, Data Handling and Algebra. Some of the test items may consist of sub-items.

<b>Sub-paper</b> <b>Dimension</b>	Sub-paper 1	Sub-paper 2	Sub-paper 3	Sub-paper 4
Number, Measures, Shape & Space, Data Handling and Algebra	50 minutes	50 minutes	50 minutes	50 minutes

In the Assessment, various types of test items will be used. Some are multiple-choice items, which can be marked objectively. Some are open-ended items, in which pupils have to fill in the blanks, write their own answers, or the necessary mathematics expressions, equations, solutions and explanations.

### 3. Examples

Some examples are shown below to illustrate the different types of items set. These examples are by no means exhaustive.

#### Number Dimension

1.  $23.04 - (6.79 + 11.57) =$

(Blacken the circle next to the correct answer with an **HB pencil**.)

- A. 4.68
- B. 4.78
- C. 5.68
- D. 5.78

2.  $4 - 1\frac{5}{6} \div \frac{2}{3} =$

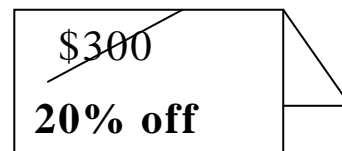
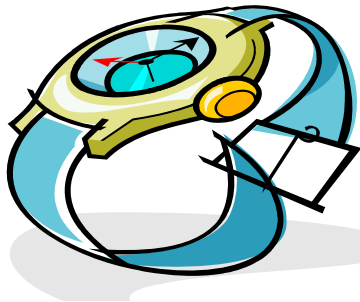
3. Arrange the following numbers from the largest to the smallest.

83%	,	$\frac{5}{6}$	,	8.3
-----	---	---------------	---	-----

Answer: 

	>		>	
--	---	--	---	--

4.



The marked price of a watch was \$300. In a sale, John bought the watch at a discount of 20%. Find the amount that he paid for the watch.

(Show your working)

--

5. Write down **all** the common factors of 18 and 24.

Answer: \_\_\_\_\_

6. A pen weighs 9.5 g. The total weight of 140 pens is \_\_\_\_\_ kg.

7. Which of the following expressions has the largest value?  
(Blacken the circle next to the correct answer with an **HB pencil**.)

- A.  $80 - 92 \times 50\%$
- B.  $80 - 92 \times 60\%$
- C.  $80 - 98 \times 60\%$
- D.  $80 - 98 \times 50\%$

8.

### Protect Your Spine



Requirement: The weight of your schoolbag should not exceed **15%** of your own weight.

Linda weighs 30 kg and her schoolbag weighs 5.1 kg.  
Does the weight of Linda's schoolbag satisfy the above requirement? Why?

Answer: \* Yes / No (\*circle the answer), because

---

---

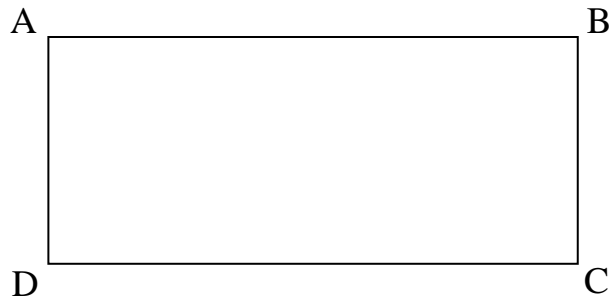
### Measures Dimension

9.



The difference between the capacities of the above two containers is \_\_\_\_\_ mL.

10. In the figure below, ABCD is a rectangle.



(a) Use a ruler to measure the length and width of the rectangle (give the length and width to the nearest cm).

Answer: Length = \_\_\_\_\_ cm; Width = \_\_\_\_\_ cm

(b) Find the area of the rectangle.

Answer: The area is \_\_\_\_\_  $\text{cm}^2$ .

11. At 11:50 a.m., a manager requests his secretary Mary to type a letter of 600 words. If Mary can type 40 words per minute, when will she finish typing?

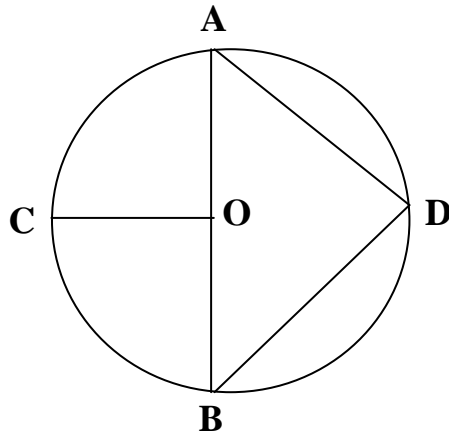
(Show your working)

### Shape & Space Dimension

12. Which kind(s) of quadrilaterals has (have) two pairs of opposite sides that are equal and parallel?

Answer: \_\_\_\_\_

13.

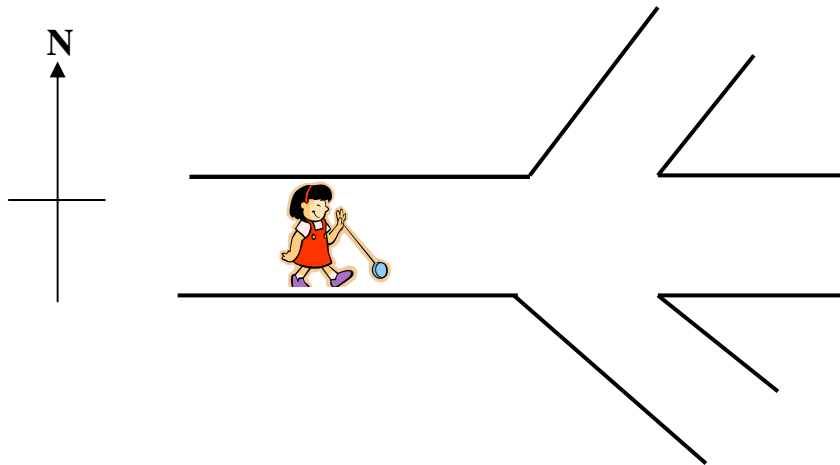


In the figure above, O is the center of the circle, AOB is a straight line. Line segment  is twice as long as OC.

14. Which kind of 3-D shapes has 4 vertices, 6 edges and 4 faces?

Answer: \_\_\_\_\_

15.



Mary is going towards the East. She will turn right at the road junction. Towards which direction will she go after making the turn?

(Blacken the circle next to the correct answer with an **HB pencil**.)

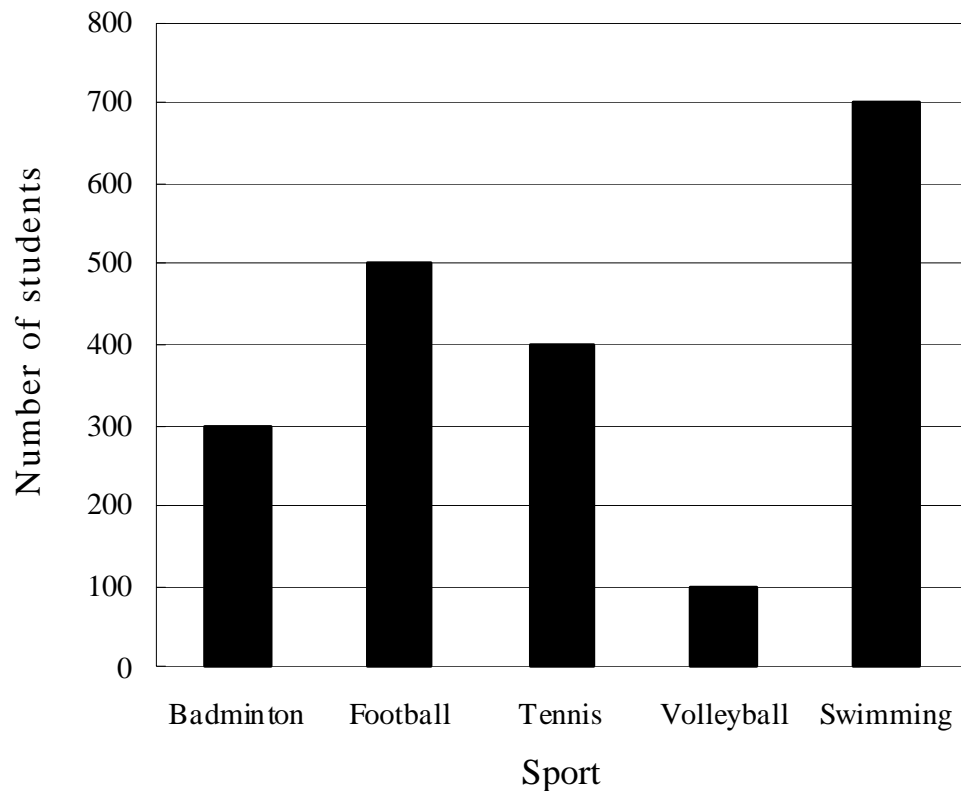
- A. North
- B. North-East
- C. South-East
- D. South-West

**Data Handling Dimension**

16. The weights of Tom, May and Peter are 62 kg, 40 kg and 54 kg respectively. Their average weight is \_\_\_\_\_ kg.

17. The following bar chart shows the favourite sports of students in Standard College.

**Favourite Sports of Students in Standard College**



(a) Which is the most favourite sport of the students?

Answer: \_\_\_\_\_ is the most favourite sport.

(b) What is the total number of students in Standard College?

Answer: The total number of students is \_\_\_\_\_ .




17. (c) What percentage of students in Standard College like football the most?

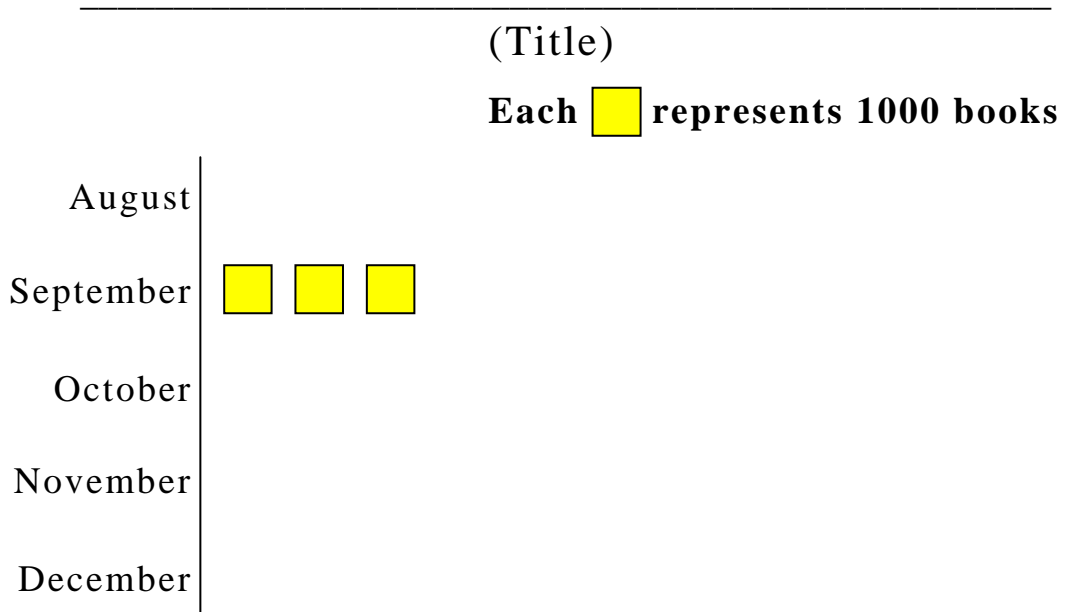
Answer: \_\_\_\_\_ % of students in Standard College like football the most.

18. The following table shows the number of books sold by Fair Bookstore during the months of August to December.

<b>Month</b>	<b>No. of books sold</b>	<b>No. of books sold (correct to the nearest thousands)</b>
August	6 880	
September	2 953	3 000
October	2 409	
November	3 420	
December	4 542	

(a) Complete the table above.

18. (b) The following pictogram shows the number of books sold (correct to the nearest thousands) in Fair Bookstore during the months of August to December. Fill in the title and complete the pictogram using one  to represent 1 000 books.



- (c) From the table of data, what is the difference in the actual numbers of books sold in August and November?

Answer: The difference is \_\_\_\_\_ .

- (d) From the pictogram, the difference in the numbers of books sold in August and November is 4 000. Why is the answer in part (c), when corrected to the nearest thousands, not equal to 4 000?

Answer: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Algebra Dimension

19. Tim has \$30. Betty has \$ $x$  more than Tim. How much do they have altogether?

(Blacken the circle next to the correct answer with an **HB pencil**.)

A.  $\$(30+x)$

B.  $\$(60+x)$

C.  $\$(60-x)$

D.  $\$30x$

20. Solve the following equations.

(a)  $23 + x = 37$

$$x = \boxed{\phantom{00}}$$

(b)  $2y - 10 = 8$

$$y = \boxed{\phantom{00}}$$

(c)  $4.8 = 1.2 + 6m$

$$m = \boxed{\phantom{00}}$$

(d)  $11 + \frac{n}{13} = 13$

$$n = \boxed{\phantom{00}}$$

21. David spends \$45 to buy 1 ice-cream and 4 hamburgers. If the ice-cream costs \$5, **use the method of solving equation**, find the cost of one hamburger.

(Show your working)

### Suggested Answers

1. A

2.  $1\frac{1}{4}$

3.  $8.3 > \frac{5}{6} > 83\%$

4. The amount that John paid =  $\$300 \times (1 - 20\%)$   
=  $\$300 \times 80\%$   
=  $\$240$

OR

The amount of discount =  $\$300 \times 20\%$   
=  $\$60$

$\therefore$  The amount that John paid =  $\$(300 - 60)$   
=  $\$240$

5. 1, 2, 3 and 6 (answers can be given in any order)

6. 1.33

7. A

8. No, because according to the requirement, the weight of Linda's schoolbag should not exceed  $30 \times 15\% = 4.5$  kg.

OR

No, because Linda's schoolbag is  $\frac{5.1}{30} \times 100\% = 17\%$  of her own weight.

9. 700

10. (a) 7, 3 respectively  
(b) 21

11. Time taken by Mary to type the letter =  $\frac{600}{40}$  minutes  
= 15 minutes

∴ Mary will finish typing at 12:05 p.m.

12. squares/square, rectangles/rectangle, parallelograms/  
parallelogram, rhombuses/ rhombus (answers can be given in  
any order; do not accept wrong spelling)

13. AB/BA/AOB/BOA

14. triangular pyramid (do not accept wrong spelling)

15. C

16. 52

17. (a) Swimming  
(b) 2 000  
(c) 25

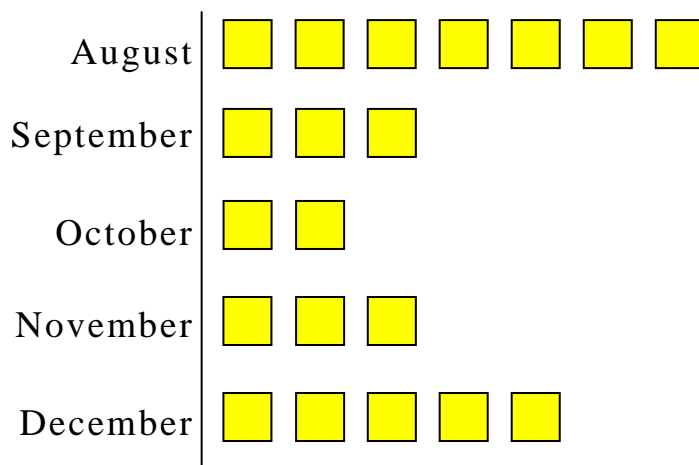
18. (a)

<b>Month</b>	<b>No. of books sold</b>	<b>No. of books sold (correct to the nearest thousands)</b>
August	6 880	<b>7 000</b>
September	2 953	3 000
October	2 409	<b>2 000</b>
November	3 420	<b>3 000</b>
December	4 542	<b>5 000</b>

18. (b) Number of books sold by Fair Bookstore from Aug. to Dec.

(Title)

1  represents 1 000 books



(c) 3 460

(d) It is because the actual numbers of books sold have been corrected to the nearest thousands before they are used to draw the pictogram. Hence the information read from the pictogram is different from the actual data.

19. B

20. (a) 14

(b) 9

(c) 0.6

(d) 26

21. Let the cost of one hamburger be  $\$x$ .

$$5 + 4x = 45$$

$$4x = 40$$

$$x = 10$$

OR

$$5 + 4x = 45$$

$$4x = 40$$

$$x = 10$$

$\therefore$  The cost of one hamburger is \$10.

**Remark:** Wrong spellings and incorrect Chinese characters may not be accepted as correct answers if mathematical terms (including the names of 2-D or 3-D shapes, names or symbols of measurement units and the eight compass points) are involved.