保良局李城璧中學

中一入學前香港學科測驗
（編班試）

中文科 評估練習

（參考答案）

中國語文科 評估練習 參考答案

甲、詞語運用(以下填充答案只供參考，若學生言之成理，亦為正確)

一、試在以下句子中加入**描述動作的字詞**，表現人物的動態，把答案填在橫線上。

1 妹妹聽到開門聲，已知是爸爸回來。她直__奔__大門，__跑__到爸爸跟前。爸爸看到妹妹熱情的樣子，也忍不住__蹲__下來，__撫摸__妹妹的臉頰，然後__抱__起她，才慢慢脫掉鞋子，進入屋內。

2 小時候玩捉迷藏，我是最好勝的一個。為了避過敵人，我會__趴__在矮樹下，在樹叢中__匍匐__前進，有時__蜷縮__在樹洞內，不讓人發現。有一次，為了逃避敵人的追捕，我敏捷地__跨__過草地的圍欄，面前的路卻被小河攔住。我毫不猶豫，打算__跳__過小河，卻因為力度不足，就這樣掉到河裏，弄得全身濕透，手腳受傷，回家被父母罵了一頓。

3 祖父吃力地__拉__開抽屜，__拿__出一本陳舊的相簿。他雙手__顫抖__着，小心翼翼地__揭__開每一頁。他__凝視__着相簿中的照片，不禁悲從中來，掉下眼淚。我在房門外__窺看__着，不敢作聲，怕他看見，心中感到陣陣酸楚。

二、試在以下句子中加入不同的**描述感情的字詞**，表現人物的感情，把答案填在橫線上。

1 我們吃晚飯的時候，爸爸__興奮__地告訴我們他研發的機器人竟在國際大賽上擊敗不少強手，奪得大獎，令他感到__喜出望外__，我們聽了，都為他感到__高興__。

2 她紅着臉，__羞怯__地站在舞台上。樂聲響起，她隨着輕快的音樂翩翩起舞。樂聲急轉，她做出一連串高難度動作，看得觀眾__膽顫心驚__。她的舞姿表現出驚人的技巧和自信，與剛才站在台上的她，簡直判若兩人，觀眾都感到__驚訝__萬分。

三、下列哪個成語最能形容一個人做事小心謹慎，從不冒險？

A. 膽大心細　B. 謹小慎微　C. 大手大腳　D. 粗心大意

正確答案：B. 謹小慎微

解析：謹小慎微指做事非常小心謹慎，注重細節，避免錯誤。A 強調膽量大但心細，C 形容花錢大手大腳，D 則指粗心，均不符合題意。

四、小明在考試前認真複習，準備充分，終於取得優異成績。他的表現可以用哪個成語來形容？

A. 臨陣磨槍　B. 胸有成竹　C. 半途而廢　D. 心不在焉

正確答案：B. 胸有成竹

解析：胸有成竹指心中已有全盤計劃或把握，形容準備充分。A 指臨時抱佛腳，C 指中途放棄，D 指注意力不集中，均不合題意。

五、下列哪個成語最能形容一個人非常固執，不聽他人意見？

A. 剛愎自用　B. 虛懷若谷　C. 見多識廣　D. 循規蹈矩

正確答案：A. 剛愎自用

解析：剛愎自用指固執己見，不接受別人意見。B 形容虛心，C 指閱歷豐富，D 指遵守規則，均不符合題意。

乙、閱讀理解

答案：

1	**C**
2	**B**
3	**D**
4	**D**
5	**B**
6	**D**
7	**D**
8	**A**
9	**B**
10	**C**
11	**B**
12	**B**

-完-


保良局李城璧中學

Pre-Secondary One Hong Kong Attainment Test

中一入學前香港學科測驗

（編班試）


英文科 評估練習

（參考答案）


Pre-S1 Attainment Test Practice Paper

Answer Key and Writing Sample

Reading (1) (28 marks)

23. A

24. D

25. C

26. B

27. B

28i. listen

28ii. honest

Reading (2)

17. A

18. A

19. D

20. B

21. B

22i. enjoy

22ii. outfit

Writing (30 marks)

A writing sample:

Yesterday, I visited a theme park with my family. When we arrived, the park was incredibly crowded, and a long queue had formed at the entrance. I could hardly contain my excitement! As soon as we got inside, I hurried over to my favorite cartoon character, who was holding colorful balloons. I wanted my parents to capture a photo of us together. Suddenly, the cartoon character stumbled and fell down! Everyone gasped in surprise, but then the character quickly got up, smiled, and waved. I laughed and snapped a picture anyway. It turned out to be a wonderful day!

An analysis of the above story sample in terms of content, language and organization

Content

- Setting and Context: The story effectively establishes the setting by mentioning the theme park and the crowded entrance. This context helps readers visualize the scene.

- Character Interaction: The protagonist's excitement about meeting their favorite cartoon character adds a personal touch and engages the reader.

- Conflict and Resolution: The unexpected event of the cartoon character falling creates a moment of surprise and humor, which adds depth to the narrative.

Language

- Vocabulary: The language is mostly simple but incorporates slightly more advanced words like "incredibly" and "stumbled." This enhances the narrative without making it too complex.

- Imagery: Descriptive phrases like "colorful balloons" create vivid imagery, helping readers picture the scene.

- Tone: The tone is light-hearted and cheerful, making it suitable for a story about a fun day at a theme park.

Organization

- Structure: The story follows a clear chronological order, starting from arrival at the park to the main event with the cartoon character.

- Clarity: Each sentence flows logically to the next, making it easy for readers to follow the narrative.

- Conclusion: The ending wraps up the story nicely, emphasizing that despite the mishap, the day was enjoyable.

Overall, the story is well-crafted, balancing engaging content with clear language and effective organization.

保良局李城璧中學

中一入學前香港學科測驗

（編班試）

數學科

評估練習 及 溫習筆記

（參考答案）

Pre-Secondary 1 Hong Kong Attainment Test

中一入學前香港學科測驗

Mathematics Assessment Practice

數學科評估練習

Time allowed for the practice: 30 minutes (extendable as needed)

練習時間：30 分鐘 (可按需要延長)

Instructions:

1. This test contains two sections:

   Section A: Questions 1 – 30

   Section B: Questions 31 – 34

2. Answer **ALL** questions.
3. Write your name on the cover page.
4. 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 34 題

2. 全部題目均須作答。
3. 在封面頁填上姓名。
4. 不准使用計算機。

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 total collection of a library is 2 600 000 books when corrected to the nearest hundred thousand and 2 650 000 books when corrected to the nearest ten thousand. Which of the following could be the possible total collection of the library?

A. 2 643 000

B. 2 646 000

C. 2 653 000

D. 2 656 000

1. 某圖書館藏書的總數取近似值至十萬位後為 2 600 000 本，以及取近似值至萬位後為 2 650 000 本。下列哪一個數可能是該圖書館的藏書總數？

A. 2 643 000

B. 2 646 000

C. 2 653 000

D. 2 656 000

2. The price of a notebook is $34. One extra free notebook will be given when buying 6 notebooks. Miss Chan needs to buy 25 notebooks, how much should she pay at least?

A. $612

B. $748

C. $816

D. $850

2. 一本筆記簿的售價是$34，購買 6 本可額外獲贈一本。陳小姐需購買 25 本筆記簿，她最少須付多少？

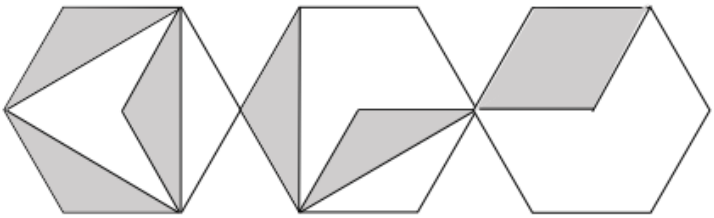
A. $612

B. $748

C. $816

D. $850

3. All factors of H are: 1, 7, 11, H Which of the following **is not** a multiple of H? A. 88 B. 154 C. 231 D. 308	**3.** H 的所有因數是： 1、7、11、H 以下哪一個**不是** H 的倍數？ A. 88 B. 154 C. 231 D. 308
4. 1, 2, 6 are used to form the largest 3-digit number which is a multiple of 6. Each number should not be used repeatedly. What is the H.C.F. of that 3-digit number and 90? A. 30 B. 18 C. 15 D. 6	**4.** 用 1、2、6 組成一個最大的三位數，且該數是 6 的倍數，每個數字不可重複使用。該三位數和 90 的 H.C.F. 是多少？ A. 30 B. 18 C. 15 D. 6



5. The above figure is formed by 3 regular hexagons of the same size. What fraction of the whole figure is shaded?

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

B. $\frac{7}{18}$

C. $\frac{5}{14}$

D. $\frac{1}{3}$

5. 上圖是由 3 個大小相同的正六邊形組成。陰影部分佔全圖的幾分之幾？

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

B. $\frac{7}{18}$

C. $\frac{5}{14}$

D. $\frac{1}{3}$

6. There are $31\frac{3}{4}$kg of apples in the fruit shop. The peaches are $5\frac{3}{5}$kg heavier than the apples. What is the total weight of apples and peaches in the fruit shop?

A. $37\frac{7}{20}$kg

B. $42\frac{19}{20}$kg

C. $57\frac{9}{10}$kg

D. $69\frac{1}{10}$kg

6. 水果店有蘋果 $31\frac{3}{4}$kg，桃子比蘋果多 $5\frac{3}{5}$kg。水果店內共有蘋果和桃子多少？

A. $37\frac{7}{20}$kg

B. $42\frac{19}{20}$kg

C. $57\frac{9}{10}$kg

D. $69\frac{1}{10}$kg

7. A roll of ribbon is $15\frac{4}{5}$m long. After half of it is used, how much is left?

A. $3\frac{19}{20}$m

B. $7\frac{9}{10}$m

C. $9\frac{2}{3}$m

D. $31\frac{3}{5}$m

7. 一卷絲帶長 $15\frac{4}{5}$m，用去一半後，還剩多少？

A. $3\frac{19}{20}$m

B. $7\frac{9}{10}$m

C. $9\frac{2}{3}$m

D. $31\frac{3}{5}$m

8. $10\frac{1}{2}$L of milk is poured into glasses of capacity of $\frac{3}{4}$L each. How many glasses can be filled?

A. 7

B. 14

C. 16

D. 28

8. 有牛奶 $10\frac{1}{2}$L，可以注滿容量是 $\frac{3}{4}$ L 的杯子多少個？

A. 7

B. 14

C. 16

D. 28

9. The weight of a baby is 4.31kg, and the nurse wrote it as 3.14kg by mistake. What is the difference in value between the two '4's?

A. 0.36

B. 3.6

C. 3.9

D. 3.96

9. 嬰兒的體重是 4.31kg，護士錯寫成 3.14kg。兩個「4」的數值相差多少？

A. 0.36

B. 3.6

C. 3.9

D. 3.96

10. Which of the following has the largest value?

A. 8.8＋8＋0.08

B. 88＋8.08＋0.08

C. 88＋8.08＋0.8

D. 88＋0.8＋0.88

10. 下列哪一項的值最大？

A. 8.8＋8＋0.08

B. 88＋8.08＋0.08

C. 88＋8.08＋0.8

D. 88＋0.8＋0.88

11. The price of a bottle of coke is $26. A reduction of $52 is given to the purchase of a box of 13 bottles of coke. By how much is a bottle of coke cheaper on average?

A. $12

B. $8

C. $4

D. $2

11. 每瓶可樂的售價是$26。現購買一箱共 13 瓶的可樂，可獲減價$52，平均每瓶可樂便宜了多少？

A. $12

B. $8

C. $4

D. $2

12. Jack has 37 pieces of $5 and $10 vouchers altogether. They are worth $245. If Jack has 13 fewer $10 vouchers than $5 vouchers, how many $5 vouchers does he have?

A. 12

B. 24

C. 25

D. 30

12. 俊傑有$5 和$10 現金券共 37 張，它們總值$245。如果俊傑的$10 現金券比$5 現金券少 13 張，他有$5 現金券多少張？

A. 12

B. 24

C. 25

D. 30

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

I. rectangle
II. parallelogram
III. trapezium

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

13. 如果同時使用以上的五條膠棒去組成一個四邊形，可以組成以下哪一個/些四邊形？

I. 長方形
II. 平行四邊形
III. 梯形

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

14. Car P is 10m to the south of Car Q. Car R is 10m to the west of Car P. In which direction is Car R from Car Q?

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

14. 汽車 P 在汽車 Q 的南方 10m，汽車 R 在汽車 P 的西方 10m，汽車 R 在汽車 Q 的哪一方？

A. 東南
B. 東北
C. 西南
D. 西北

15. Which of the following descriptions about quadrilaterals is correct?

I. There are four axes of symmetry in a rectangle.

II. The four sides of a rhombus are equal in length.

III. There are two pairs of parallel opposite sides in a square.

A. I and II only

B. I and III only

C. II and III only

D. I, II and III

15. 下列哪些關於四邊形的描述是正確的？

I. 長方形有四條對稱軸

II. 菱形四邊長度相等

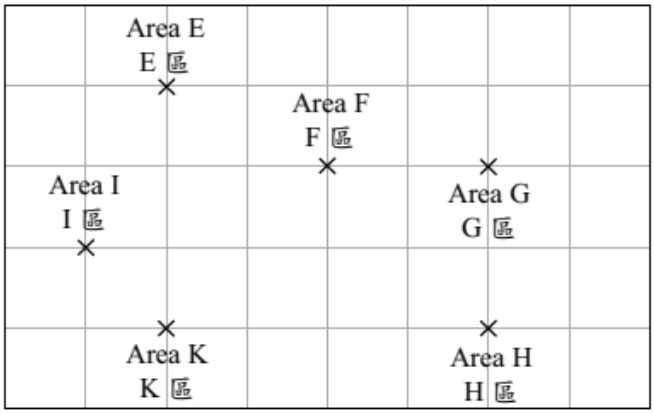
III. 正方形有兩組對邊平行

A. 只有 I 及 II

B. 只有 I 及 III

C. 只有 II 及 III

D. I、II 及 III



16. In the above figure, Area G is in the northwest of Area H. Which Area is in the north of Area K?

A. Area E

B. Area F

C. Area H

D. Area I

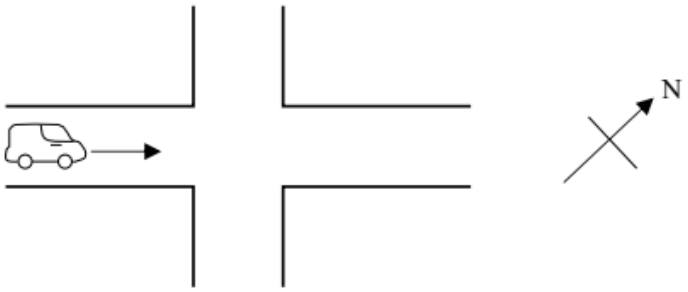
16. 在上圖，G 區在 H 區的西北方，K 區的北方是哪個區？

A. E 區

B. F 區

C. H 區

D. I 區



17. In the above figure, when the car arrives at the junction, it will turn left and go ahead. In which direction will the car go ahead when it turns left?

A. north

B. northwest

C. south

D. southeast

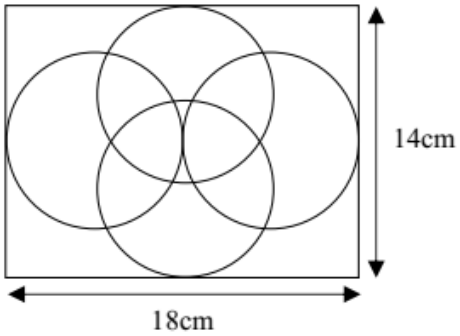
17. 在上圖，當汽車行駛至分岔路口時，它會轉左繼續行駛。汽車轉左後向哪一方行駛？

A. 北

B. 西北

C. 南

D. 東南



18. The circles inside the rectangle are of the same size. What is the radius of each circle?

A. 9cm

B. 7cm

C. 4.5cm

D. 3.5cm

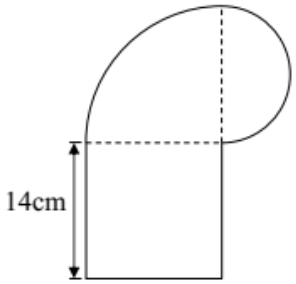
18. 長方形內所有圓的大小都相同。每個圓的半徑是多少？

A. 9cm

B. 7cm

C. 4.5cm

D. 3.5cm



14×3 + 14× $\frac{22}{7}$ ÷2 + 2× $\frac{11}{7}$ × 14÷4

42 + 22 + 22

19. The above figure is formed by a square, a quarter circle and a semi-circle. What is the perimeter of the figure? (Take π as $\frac{22}{7}$)

A. 75cm

B. 86cm

C. 96cm

D. 130cm

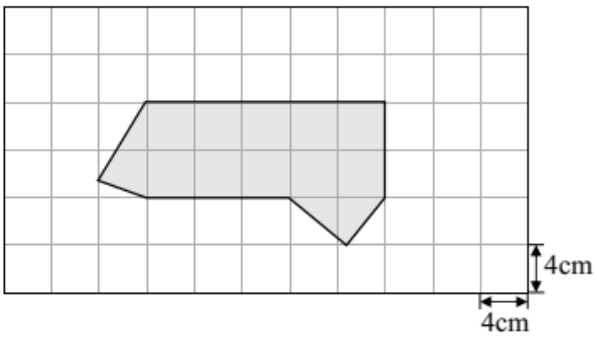
19. 上圖由一個正方形、一個四分一圓和一個半圓組成，這個圖形的周界是多少？(取π為$\frac{22}{7}$)

A. 75cm

B. 86cm

C. 96cm

D. 130cm



20. In the above figure, what is the area of the shaded part?

A. 224cm^2

B. 192cm^2

C. 14cm^2

D. 12cm^2

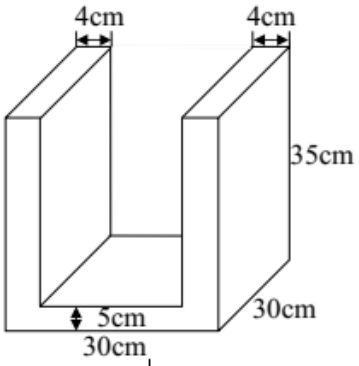
20. 上圖中，陰影部分的面積是多少？

A. 224cm^2

B. 192cm^2

C. 14cm^2

D. 12cm^2



21. What is the volume of the above figure?

A. 8400cm^3

B. 11700cm^3

C. 13500cm^3

D. 15000cm^3

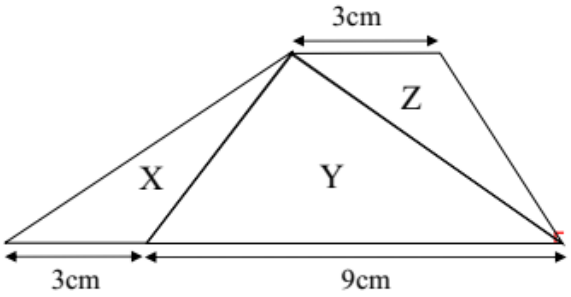
21. 上圖的體積是多少？

A. 8400cm^3

B. 11700cm^3

C. 13500cm^3

D. 15000cm^3



22. According to the above figure, which of the following descriptions is correct?

A. The area of Y is six times as large as that of X.

B. The area of X is smaller than that of Z.

C. The area of Y is larger than the total area of X and Z.

D. The area of Z is smaller than that of X.

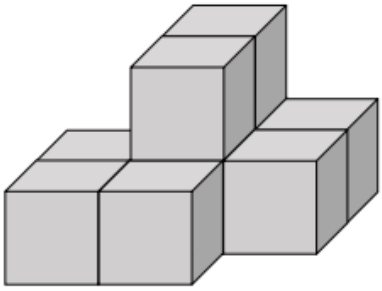
22. 根據上圖，下列哪一項描述是正確的？

A. Y 的面積是 X 的六倍。

B. X 的面積比 Z 的小。

C. Y 的面積比 X 和 Z 的總面積大。

D. Z 的面積比 X 的小。



23. The above solid is formed by cubes with side 5cm. What is the volume of the solid?

A. $750cm^3$

B. $875cm^3$

C. $1000cm^3$

D. $1125cm^3$

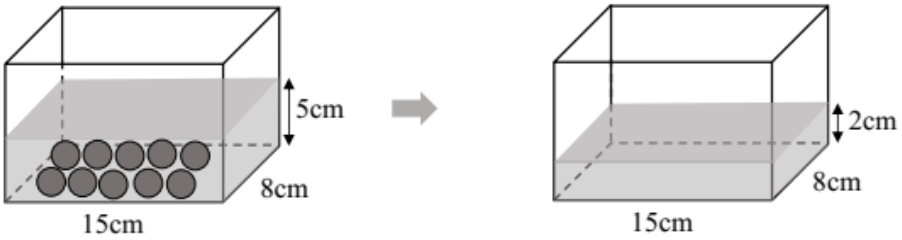
23. 以上立體由多個邊長 5cm 的正方體組成。該立體的體積是多少？

A. $750cm^3$

B. $875cm^3$

C. $1000cm^3$

D. $1125cm^3$



24. When 10 steel balls of the same volume are taken out from the tank, the water level drops to 2cm. What is the volume of each steel ball?

A. $36cm^3$

B. $60cm^3$

C. $240cm^3$

D. $360cm^3$

24. 把 10 粒體積相同的鋼珠從水缸內取出，水位下降至 2cm，每粒鋼珠的體積是多少？

A. $36cm^3$

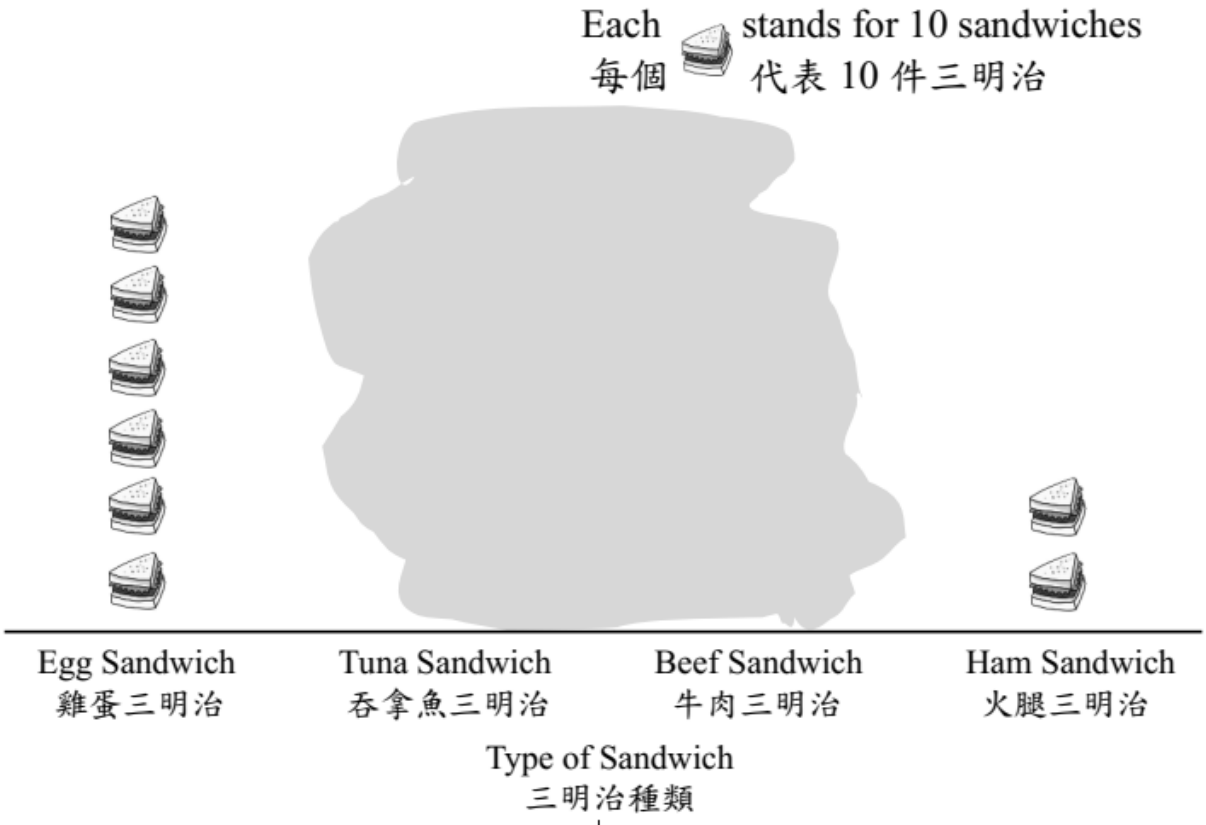
B. $60cm^3$

C. $240cm^3$

D. $360cm^3$

Sales of Sandwiches in Lucky Restaurant Yesterday

幸運餐廳昨天各款三明治的銷量



25. The above chart shows the sales of sandwiches in Lucky Restaurant yesterday, but part of it is covered with dirt. It is given that Lucky Restaurant sold 200 sandwiches yesterday, and the sales of tuna sandwiches is 3 times as that of beef sandwiches. How many should there be in the column of tuna sandwich?

A. 3

B. 9

C. 10

D. 12

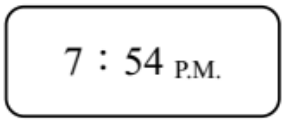
25. 以上是幸運餐廳昨天各款三明治的銷量的統計圖，但部分被塗污了。已知幸運餐廳昨天售出了 200 件三明治，而且吞拿魚三明治的銷量是牛肉三明治的 3 倍，那麼在吞拿魚三明治一欄中，應該有多少個？

A. 3

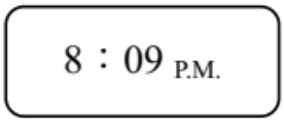
B. 9

C. 10

D. 12



Start Time
開始時間



Finish Time
完結時間

26. The above clock recorded the time that Leo used in riding a bike for 2880m. What was his average speed?

A. 3.2m/s

B. 5.33m/s

C. 19.2km/h

D. 30km/h

26. 上圖的時鐘記錄了子飛騎車騎了2880m 所用的時間。他的平均速率是多少？

A. 3.2m/s

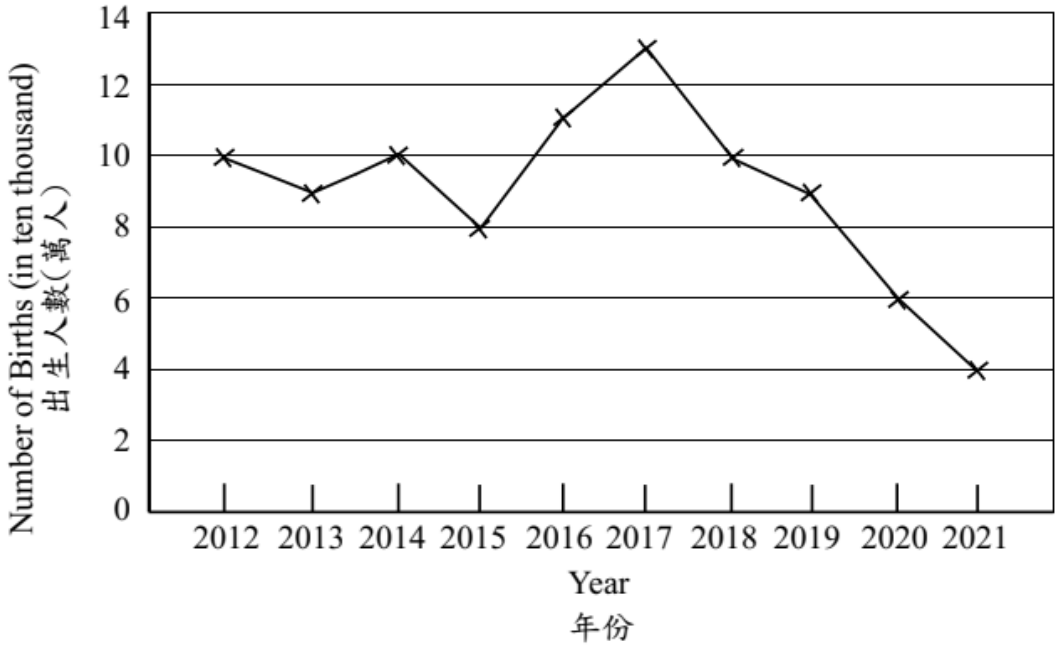
B. 5.33m/s

C. 19.2km/h

D. 30km/h

Number of Births in City F in the Past Ten Years

F 市過去十年的出生人數



27. According to the above graph, how many year(s) is/are the number of births lower than the average number of births in City F in the past ten years?

A. 7

B. 5

C. 3

D. 2

27. 根據上圖，F 市有多少年的出生人數比過去十年的平均出生人數低？

A. 7

B. 5

C. 3

D. 2

28. There were 10 participants in a camping activity. If the rental fee for hiring car was \$$y$ and the rental fee for tents for each participant was \$90. What was the total cost for this activity?

A. \$($10y+90$)

B. \$($y+90$)

C. \$$10(y+90)$

D. \$($y+900$)

28. 一個露營活動有 10 人參加。如果租車的費用是\$$y$，租用帳篷的費用是每人\$90，那麼整個活動的總費用是多少？

A. \$($10y+90$)

B. \$($y+90$)

C. \$$10(y+90)$

D. \$($y+900$)

29. If $5P = 105$, then $P+16 = ?$

A. 5

B. 21

C. 37

D. 525

29. 如果 $5P = 105$，那麼 $P + 16 = ?$

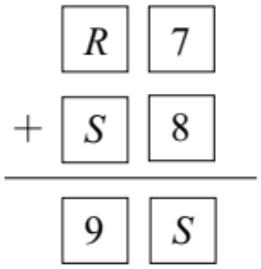
A. 5

B. 21

C. 37

D. 525

30. Study the following expression:



Find the result of $R \times S$.

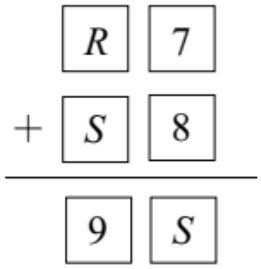
A. 8

B. 10

C. 15

D. 35

30. 觀察以下的算式：



找出 $R \times S$ 的結果。

A. 8

B. 10

C. 15

D. 35

SECTION B (26 marks)

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

乙部 (26 分)

除特別指明外，在回答本部問題時，須列出計算步驟。

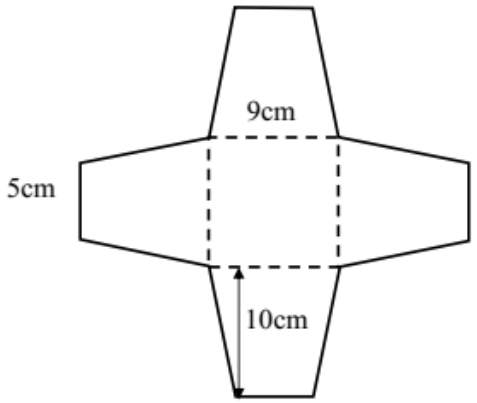


Figure 1
圖一

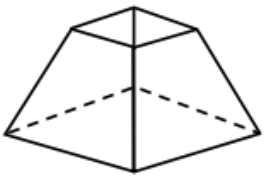


Figure 2
圖二

31. The plastic sheet in Figure 1 is formed by one square and four trapeziums of the same size and shape. Nancy used this plastic sheet to fold into the bottle in Figure 2.

(a) In Figure 1, what is the area of the plastic sheet? [4 marks]

(b) In Figure 2, the capacity of the bottle is 450cm^3. If Nancy uses this kind of bottle to hold 1560cm^3 of vinegar, how many bottles can be fully filled at most? (Give the answer only) [2 marks]

31. 圖一的膠片是由一個正方形及四個大小和形狀相同的梯形組合而成。敏儀利用該膠片摺成圖二的瓶子。

(a) 在圖一，膠片的面積是多少？ [4 分]

面積 = $\frac{(9+5)\times 10}{2} \times 4 + 9\times 9$
= 361 cm^2

(b) 在圖二，這個瓶子的容量是 450cm^3。如果敏儀用這款瓶子去盛載 1560cm^3 的醋，她最多可盛滿多少瓶？(只須寫出答案) [2 分]

$\frac{1560}{450} = 3\frac{7}{15}$

∴ 最多可盛滿 3 瓶

32. Shop A had 365kg of oil while Shop B had 384kg of oil.

(a) Shop A used n kg of oil each day. How much was left after 15 days? (Give the answer only and express the answer in terms of n) [2 marks]

(b) Shop B used all the oil in 17 days. During the first 16 days, Shop B used m kg of oil each day. On the last day, only 16kg of oil was left. How much oil did Shop B use on each of the first 16 days? (Use equation to solve the problem and show working steps) [4 marks]

32. A 店有 365kg 油，B 店有 384kg 油。

(a) A 店平均每天用去 n kg 油。15 天後，A 店還餘油多少？(只須寫出答案並以 n 表示答案) [2 分]

餘油：$(365-15n)$ kg。

(b) B 店在 17 天內用去全部油。在首 16 天，B 店平均每天用去 m kg。在最後一天，只剩下 16kg。B 店在首 16 天平均每天用去油多少？(須用方程計算及列出步驟) [4 分]

$16m + 16 = 384$

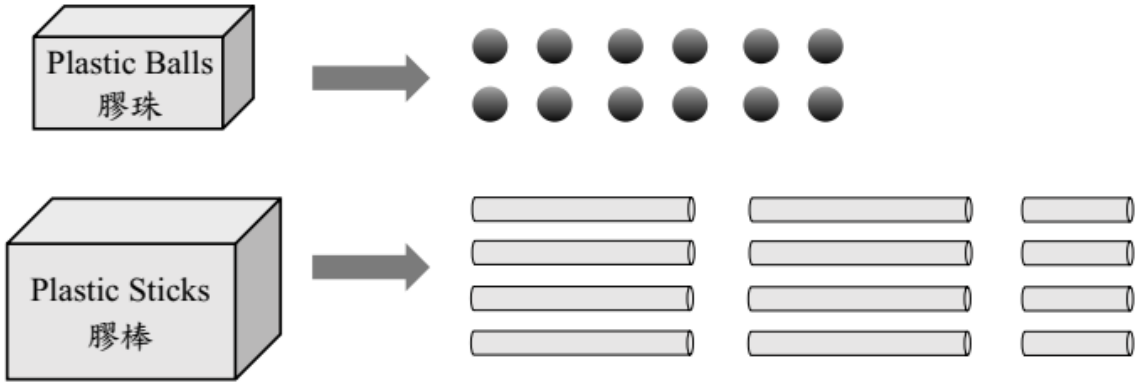
$16m = 368$

$m = 23$

∴ 每天用去油 23 kg。

33. There are 12 plastic balls in a box. There are 12 plastic sticks in a box, in which 8 of them are 10cm long each and the rest are 5cm long each.

33. 一盒膠珠有 12 粒。一盒膠棒有 12 枝，其中 8 枝各長 10cm，其餘各長 5cm。



(a) A box of plastic balls cost $3.5 and a box of plastic sticks cost $9.6. Claudia bought 4 boxes of plastic balls and 6 boxes of plastic sticks, how much should she pay in total? (Give the answer only) [2 marks]

(b) Claudia uses a box of plastic balls and two boxes of plastic sticks to make a cube. On the answer sheet, draw the net of that cube. [2 marks]

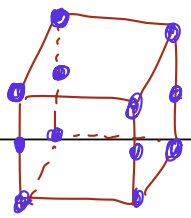
(a) 一盒膠珠售$3.5，一盒膠棒售$9.6。麗繁購買 4 盒膠珠和 6 盒膠棒，她須付款多少？(只須寫出答案) [2 分]

$3.5 \times 4 + 9.6 \times 6$

$= 71.6$

∴ 須付 $71.6

(b) 麗繁用一盒膠珠和兩盒膠棒製作了一個正方體，在答題紙上畫出該正方體的摺紙圖樣。 [2 分]



Happy Flower Shop
喜悅花店

Fragrant Flower Shop
芬香花店

34. (a) The Happy Flower Shop sold the above vase for 85% of its original price. The additional packing fee was $25. How much should a customer pay for purchasing a vase with packing fee in total?

[4 marks]

(b) The Fragrant Flower Shop sold the above vase for 90% of its original price and no additional fee was needed for packing. In which flower shop did Mr Lau buy the vase with packing cheaper? Explain by using data.

[4 marks]

(c) The original price of a bunch of flowers was $125. Mr Lau bought this bunch of flowers at a special offer of $85.5, how much did he save? (Give the answer only)

[2 marks]

34. (a) 喜悅花店以原價的 85%售出以上花瓶，另收取$25 包裝費。顧客購買一個花瓶連包裝費共須付多少？ [4 分]

220 × 85% + 25

= 212

∴ 共須付 $212.

(b) 芬香花店以原價的 90%出售以上花瓶，包裝不另外收費。劉先生在哪一間花店購買及包裝花瓶較便宜？試用數據解釋。 [4 分]

240 × 90%

= 216

∵ 216 > 212

∴ 在喜悅花店買較便宜.

(c) 一束花的原價是$125。劉先生以$85.5 的優惠價購買了這束花，他節省了多少？(只須寫出答案) [2 分]

125 − 85.5

= $39.5

End of Practice

1 Dividing decimals

Do you know?

小數	decimal	四捨五入	round off
十分位	tenths place	百分位	hundredths place

Calculate. Round off the answers to the nearest tenth if necessary.

1. $10.2 \div 8.5 =$ 1.2

2. $11.9 \div 3.4 =$ 3.5

3. $4.77 \div 1.2 =$ 4.0

4. $5.9 \div 0.6 =$ 9.8

5. $1.02 \div 0.02 =$ 51

6. $1.5 \div 0.03 =$ 50

7. $36.3 \div 3.3 =$ 11

8. $5.7 \div 1.8 =$ 3.2

9. $25.3 \div 2.7 =$ 9.4

10. $12.5 \div 2.5 =$ 5

11. $8.6 \div 7.2 =$ 1.2

12. $5.9 \div 0.73 =$ 8.1

In each of the following, estimate the product. If the product is between 5 and 10, put a ✓ in the circle, otherwise, put a ×.

13. (×) $5.31 \div 1.8$

14. (×) $10.2 \div 0.3$

15. ( ) $12.2 \div 2.3$ ✓

16. ( ) $7.2 \div 0.96$ ✓

2 Decimals and fractions

Do you know?

小數	decimal
分數	fraction
四捨五入	round off
十分位	tenths place
百分位	hundredths place

Let's have fun!

Fill in the blank with a decimal.

$\frac{8}{9} < \square < \frac{9}{10}$

0.89 (or other reasonable answers)

Change each decimal below into a fraction in its simplest form.

中 把小數化為最簡分數

1. $19.2 = 19\frac{1}{5}$ **2.** $40.25 = 40\frac{1}{4}$

3. $6.16 = 6\frac{4}{25}$ **4.** $7.08 = 7\frac{2}{25}$

Change each fraction below into a decimal.

5. $\frac{9}{20} = 0.45$ **6.** $2\frac{3}{5} = 2.6$

7. $\frac{4}{7} = 0.57$ (rounded off to the nearest hundredth)

中 答案取至百分位

8. $4\frac{2}{3} = 4.7$ (rounded off to the nearest tenth)

中 答案取至十分位

9. $6\frac{5}{11} = 6.45$ (correct to 2 decimal places)

中 答案取至小數點後兩個位

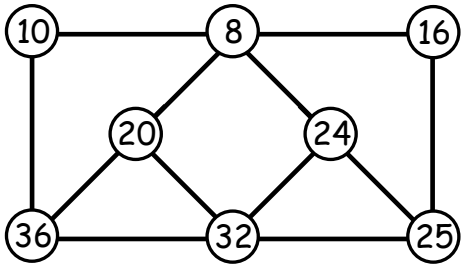
3 Averages

Do you know?

平均，平均數 average

Let's have fun!

The average of the numbers that form the vertices of a square is 21.



Find the average of each group of numbers below. Round off the answers to the nearest hundredth if necessary.

1. 82, 75, 96, 75, 80 Average = 81.6

2. 4.5, 3.6, 6.7, 3.8, 5.4, 6.6 Average = 5.1

3. 250, 300, 350, 320 Average = 305

4. 2, 3, 2.5, 0, 1, 1.5, 1 Average = 1.57

The table below shows Tom's and Lily's test results.

Subject	Chinese	English	Mathematics	General studies
Tom's marks	75	79	85	85
Lily's marks	73	78	100	75

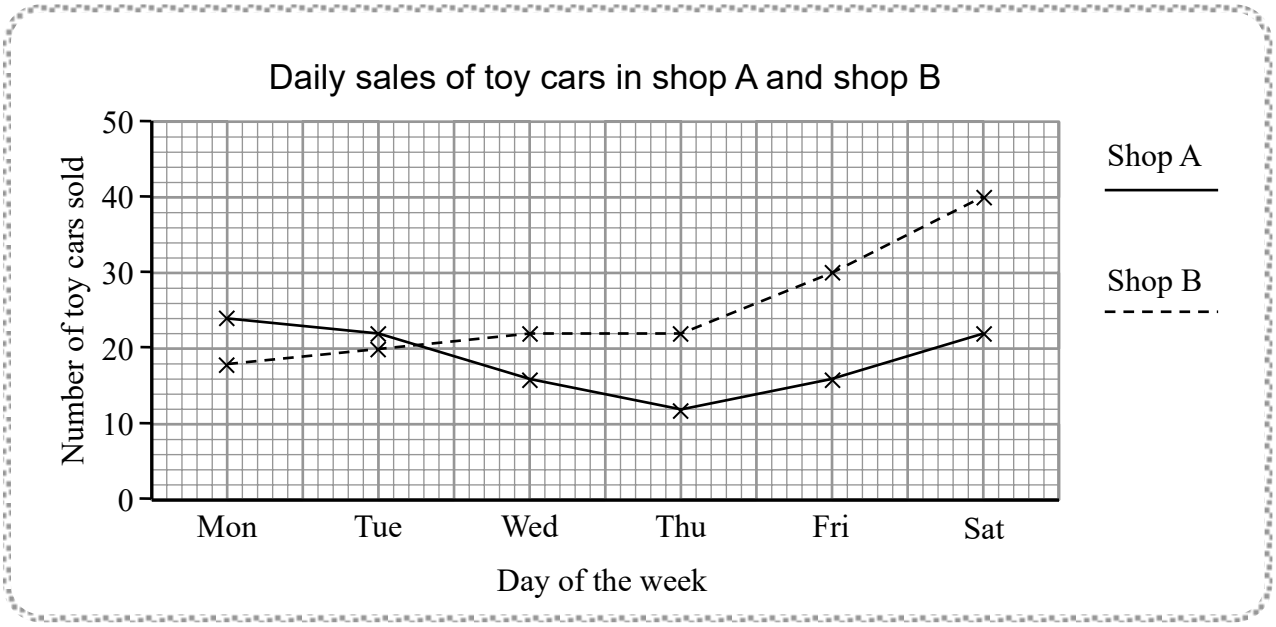
5. Find Tom's average mark of the tests. 81

6. Find Lily's average mark of the tests. 81.5

7. Who has a higher average mark of the tests? Tom / Lily

4 Broken line graphs

The broken line graph below shows the daily sales of toy cars in shop A and shop B from Monday to Saturday.



Circle the answers.

1. The daily sales of toy cars in shop A decreased from (Monday) / Tuesday to Thursday and increased afterwards.
2. The difference between the daily sales of toy cars of the two shops on Friday / (Saturday) is the greatest, which is 14 / (18) / 20 cars.
3. The difference between the daily sales of toy cars of the two shops on (Tuesday) / Wednesday is the least, which is (2) / 4 / 6 cars.
4. Shop (A) / B sold more toy cars on Monday.
5. Shop A / (B) is more likely to sell more toy cars on the coming Sunday.

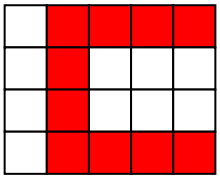
5 Percentage

Do you know?

百分數	percentage
分數	fraction
小數	decimal

Let's have fun!

Shade the squares below so that a letter 'c' is formed and takes up 50% of the whole.



(or other reasonable answers)

Use % to write the following percentages.

1. Sixty-two percent = 62%

2. 8 out of 100 = 8%

Change each percentage below into a decimal.

3. 70% = 0.7

4. 148% = 1.48

5. 205% = 2.05

Change each decimal below into a percentage.

6. 0.8 = 80%

7. 6.2 = 620%

8. 0.039 = 3.9%

Change each percentage below into a fraction in its simplest form.

9. 40% = $\frac{2}{5}$

10. 28% = $\frac{7}{25}$

11. $5\frac{5}{7}\%$ = $\frac{2}{35}$

Change each fraction below into a percentage.

12. $\frac{1}{4}$ = 25%

13. $1\frac{3}{5}$ = 160%

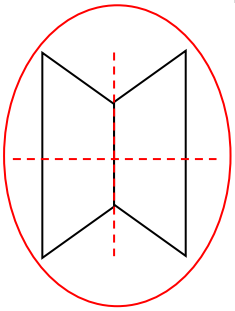
14. $\frac{2}{3}$ = $66\frac{2}{3}\%$

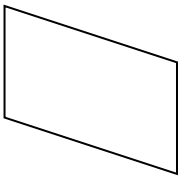
6 Symmetry

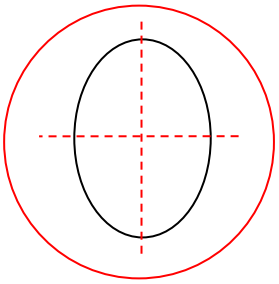
Do you know?

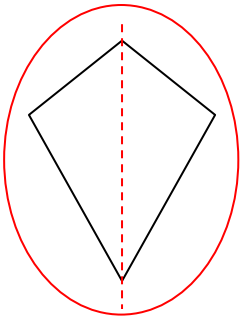
對稱軸	axis of symmetry
軸對稱平面圖形	2-D shapes having axial symmetry

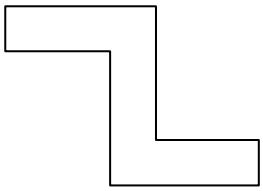
Circle the 2-D shapes having axial symmetry and draw all axes of symmetry.

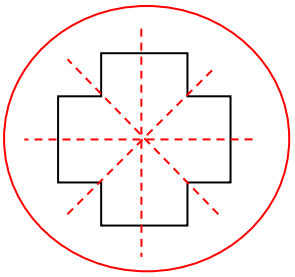
1. 

2. 

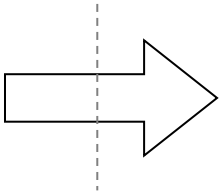
3. 

4. 

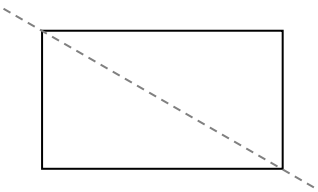
5. 

6. 

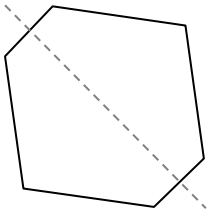
Put a '✓' in the box if the dotted line is an axis of symmetry of each shape; put '×' if it is not.

7. 

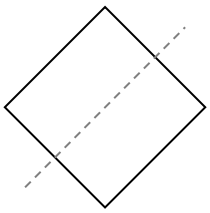
   ×

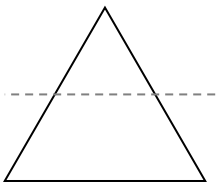
8. 

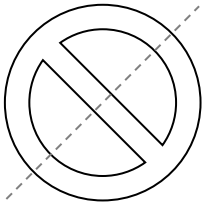
   ×

9. 

   ✓

10. 

11. 

12. 

7 Capacity and volume

Do you know?

體積	volume	長方體	cuboid
容量	capacity	量杯	measuring cup
長	length	排水法	water displacement method
闊	width		
高	height		

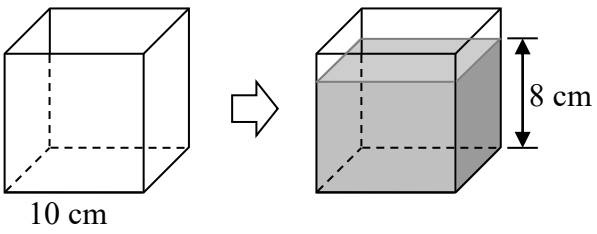
Fill in the blanks.

1. 1000 cm^3 = __1__ L

2. 2.5 L = __2500__ cm^3

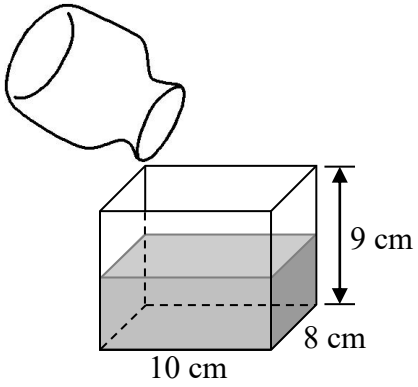
3. The length, the width and the height of a cuboid box are 10 cm, 7 cm and 8 cm respectively. The capacity of the box is __560__ cm^3.

4. Fill up a teapot with water. Then pour all the water into a cubic container, as shown on the right.



The capacity of the teapot is __800__ mL.

5. In the figure, a full glass of water is poured into a cuboid container. The water fills the container half full.



The capacity of the glass is __360__ mL.

8 Simple problems on percentage

Do you know?

原價	original price
售價	selling price

Fill in the blanks.

1. 36 out of 50 = 72 %

2. 30 out of 80 = 37.5 %

3. 60 × 25% = 15

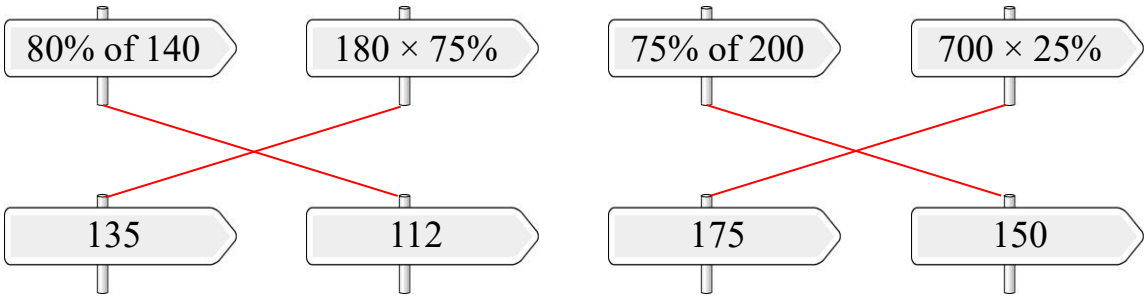
4. 700 × 70% = 490

5. 200 × (1 + 20%) = 240

6. 300 × (1 – 15%) = 255

Match the calculations with the correct answers.

7.



Answer the questions.

8. In a box of 30 chocolate beans, 6 of them are green and 5 of them are yellow. What percentage of chocolate beans are green?

20%

9. There are 60 students in a team. 45% of them are boys. How many girls are there in the team?

33

10. A factory produced 650 toy trains last week. It produced 12% more toy trains this week. How many toy trains did the factory produce this week?

728

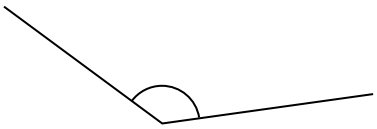
9 Angles and degree

Do you know?

角	angle	度	degree
銳角	acute angle	平角	straight angle
直角	right angle	反角	reflex angle
鈍角	obtuse angle	周角	round angle
量角器	protractor		

Which type of angle is each of the following angles? Fill in the blanks.

1.

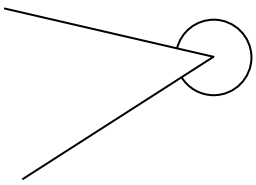


Obtuse angle

2.

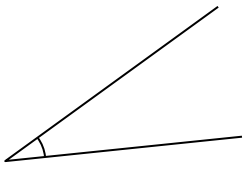
Straight angle

3.



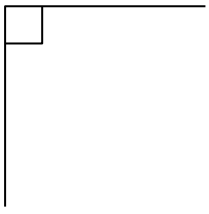
Reflex angle

4.



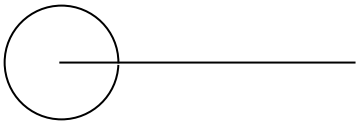
Acute angle

5.



Right angle

6.



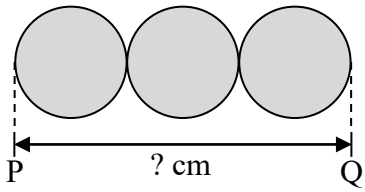
Round angle

10 Circumference

Do you know?

圓	circle
圓心	centre
圓周	circumference
半徑	radius
直徑	diameter
周界	perimeter
半圓	semicircle

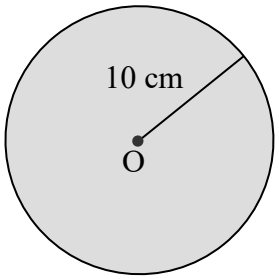
Let's have fun!



The sum of the circumferences of 3 identical circles is 132 cm. The length of PQ is 42 cm. (Take $\pi = \frac{22}{7}$)

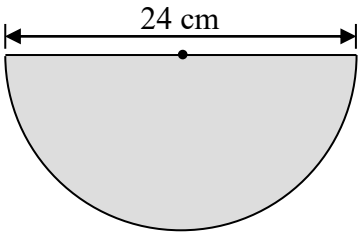
Find the perimeter of each figure below. Take π = 3.14 for calculation.
(The black dots are the centres of the original circles.)

1.



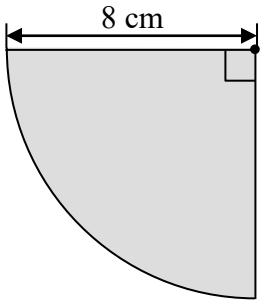
62.8 cm

2.



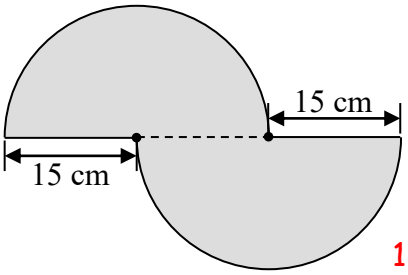
61.68 cm

3.



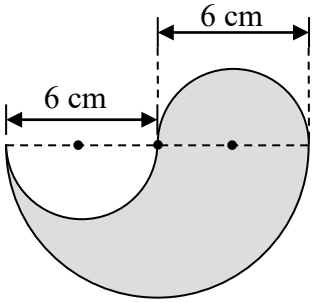
28.56 cm

4.



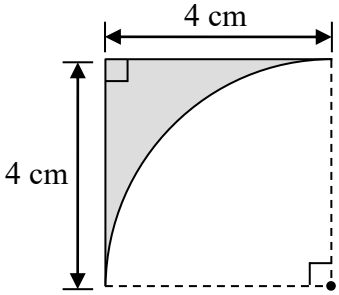
124.2 cm

5.



37.68 cm

6.



14.28 cm

11 Speed

Do you know?

速率	speed
平均速率	average speed
距離/路程	distance
時間	time
行程圖	travel graph

Let's have fun!

How long did you take to finish a 100-metre race?

_____ seconds Any reasonable answers

What is your average speed in m/s ?

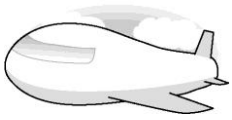
_____ m/s Any reasonable answers

Fill in the blanks.

1. Alex finished a race of 31.5 km in 3.5 hours. His average speed was __9__ km/h.

2. Peter drives at an average speed of 60 km/h. If he drives 2.5 hours, the distance travelled is __150__ km.

3. A plane flew 2100 km from Hong Kong to Seoul at an average speed of 700 km/h. The plane took __3__ hours to fly.



Solve the following problems.

4. Irene cycled at an average speed of 16 km/h. She set off at 12:30 and arrived her destination at 14:15. What was the distance she travelled in kilometres?

1 hour and 45 minutes = 1.75 hours

16×1.75

$= 28$

The distance she travelled was 28 km.

12 Simple equations

Do you know?

方程	equation
未知數	unknown

Solve the equations. 中 解方程。

1. $\frac{4}{5}u - 7 = 1$ $u =$ 10

2. $2x + 0.6 = 15$ $x =$ 7.2

3. $m \times 70\% = 49$ $m =$ 70

4. $w(1 + 25\%) = 75$ $w =$ 60

Checking 中 驗算

When $u =$ 10 ,

L.H.S. $= \frac{4}{5}u - 7$

中 左邊 $= \frac{4}{5} \times 10 - 7$

$= 1$

$=$ R.H.S. 中 右邊

In each of the following, write the equation and then find the value of *x*.

5. 4.5 times x equals 72.

   Equation: $4.5x = 72$ $x =$ 16

6. Divide $5x$ by 6 equals $4\frac{1}{6}$.

   Equation: $\frac{5x}{6} = 4\frac{1}{6}$ $x =$ 5

7. $8x$ minus 3.2 equals 24.

   Equation: $8x - 3.2 = 24$ $x =$ 3.4

8. 6 plus 40% of x equals 10.

   Equation: $6 + x \times 40\% = 10$ $x =$ 10

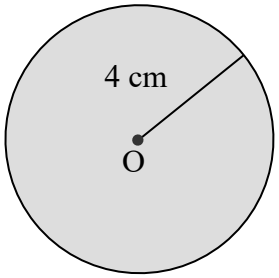
13 Area of circles

Do you know?

圓面積	area of circles	直徑	diameter
半徑	radius	圓周	circumference

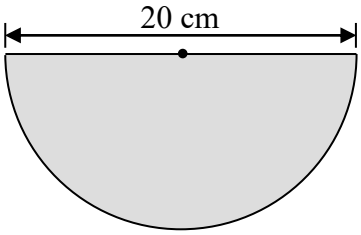
Find the area of each figure below. Take π = 3.14 for calculation.
(The black dots are the centres of the original circles.)

1.



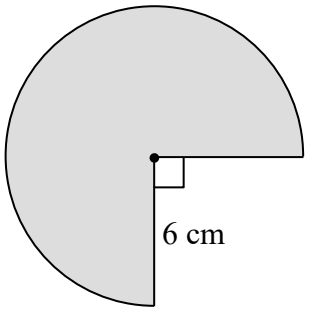
50.24 cm^2

2.



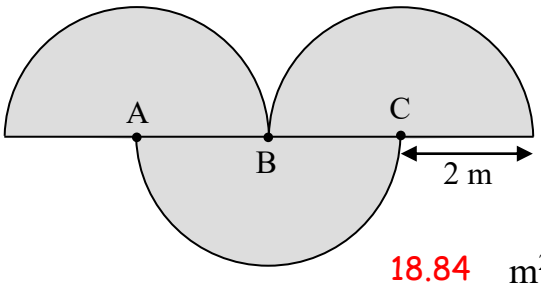
157 cm^2

3.



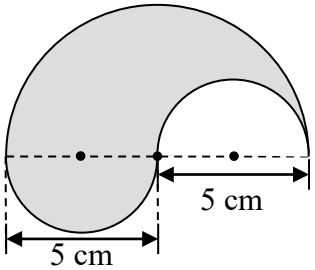
84.78 cm^2

4.



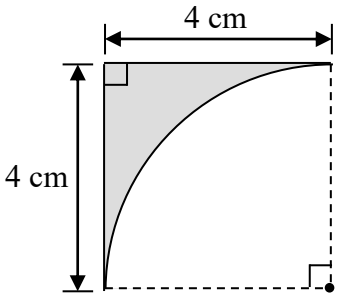
18.84 m^2

5.



39.25 cm^2

6.



3.44 cm^2

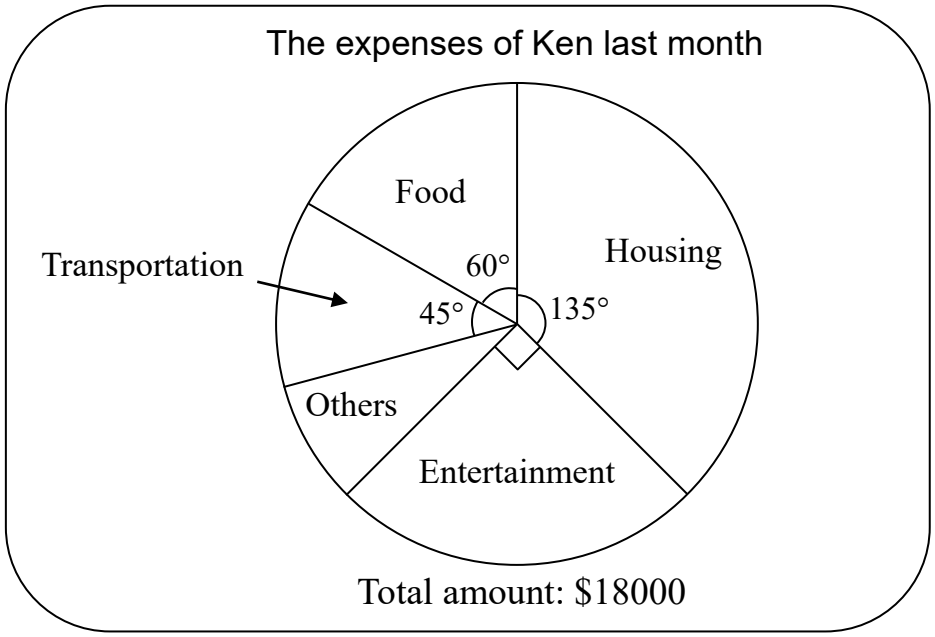
14 Pie charts

Do you know?

圓形圖	pie chart	扇形	sector
圓心角	angle at the centre		

According to each pie chart below, complete the table or answer the questions.

1. The following pie chart shows the expenses of Ken last month.



(a) The angle at the centre of the sector representing 'Others' is ___30°___.

(b) Ken spent the most on ___housing___ last month.

(c) Ken spent $___2250___ on transportation last month.

(d) ___25___ % of Ken's expenses are on entertainment last month.

(e) Ken spent $___3750___ more on housing than on food.