

Contents

	Page
Revision Zone	
Number Dimension	1. 5-digit numbers 1
	2. Multiples and factors 2
	3. Fractions 3
	4. Decimals 4
	5. Operations of numbers, fractions and decimals 5
	6. Mixed operations 6
Measures Dimension	7. Hong Kong money 7
	8. Time 8
	9. Length and distance 9
	10. Weight and capacity 10
	11. Perimeter 11
	12. Area 12
	13. Volume 13
Shape and Space Dimension	14. 3-D shapes 14
	15. 2-D shapes 19
	16. Lines and angles 20
	17. Directions 21
Data Handling Dimension	18. Pictograms 22
	19. Bar charts 23
	20. Compound bar charts 24
Algebra Dimension	21. Simple equations 25
Lv-Up Zone	
1. Number Dimension	29
2. Measures Dimension	30
3. Shape and Space Dimension	31
4. Data Handling Dimension	32
Game Zone	
The Magic of Calculator	34
Answers	15

Revision Zone



Date: _____

6 Mixed operations

Do the following calculations.

- ① $22 \times 3 + 444 =$ _____
- ② $300 + 42 \div 3 =$ _____
- ③ $126 \div 7 - 1 =$ _____
- ④ $432 \div 18 \times 5 =$ _____
- ⑤ $6 - 2.4 + 7.5 =$ _____
- ⑥ $9 - (2.4 + 3.8) =$ _____

Do the following calculations. Give the answers in the simplest forms.

- ⑦ $6 - 5\frac{2}{5} + 4\frac{3}{5} =$ _____
- ⑧ $7 - \frac{8}{17} \times 3\frac{7}{9} =$ _____
- ⑨ $4 + 5\frac{4}{7} \div 1\frac{4}{9} =$ _____
- ⑩ $3\frac{3}{4} \times \frac{2}{5} \div 6 =$ _____

Solve the following problems in horizontal forms.

- ⑪ There is $4\frac{1}{5}$ L of soft drinks. The volume of orange juice is $1\frac{2}{5}$ times that of the soft drinks. What is the total volume of the soft drinks and the orange juice?

- ⑫ Mother paid a 500-dollar note for 2 school bags as shown on the right. How much change should she get?



96 dollar 90 cents each

- ⑬ Each carton can contain 8 boxes of biscuits. Can 52 cartons contain 420 boxes of biscuits? Why?

Answer: * Yes / No (* circle the answer). It is because _____

Revision Zone

7 Hong Kong money



Date: _____

Write the correct answers on the _____.

- ① A  can exchange for 3  and .

- ②  can exchange for 12 .






- ③ 50  can exchange for .

- ④ Mother paid the following money for a watch.



The watch is worth _____ dollars _____ cents.

- ⑤ Felix wants to buy a model which costs \$97.90.

He has      .

How much does he still need to pay for the model?

Answer: He still needs _____ dollars _____ cents.

Circle the correct answers.

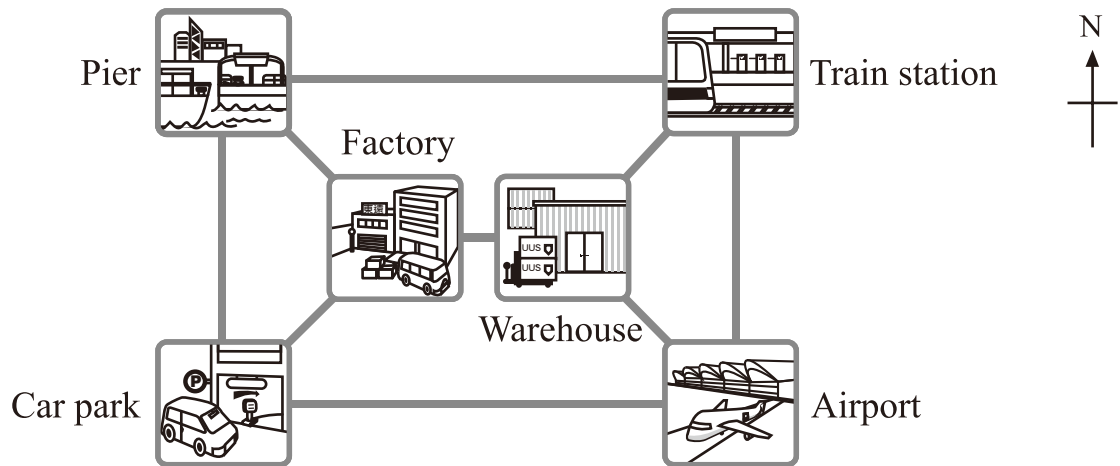
- ⑥ Mr. Wong takes a taxi, and the taxi fare is \$32.60. Which of the following does he need to pay for it?





Date: _____

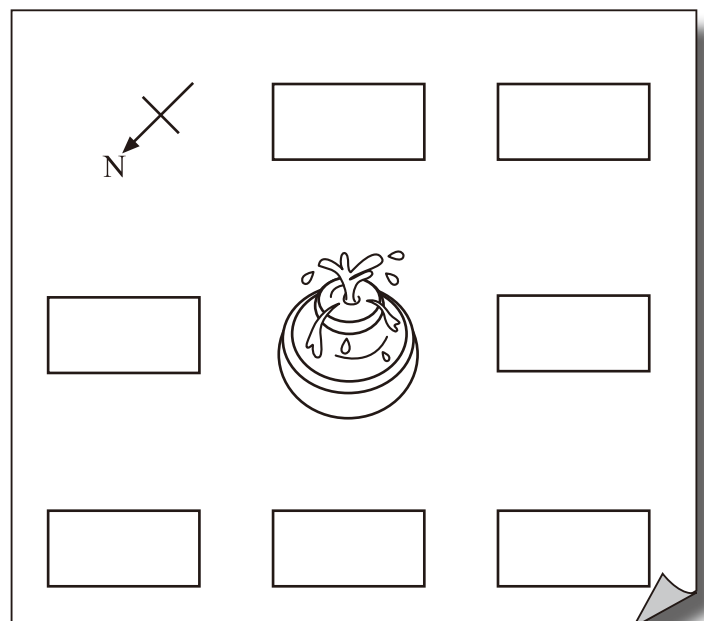
Look at the map below and write the correct answers on the _____.



- ① A truck departs from the car park. It goes _____ first. After passing the factory, it goes _____. After passing the warehouse, it turns to the _____. There is the airport.
- ② A bus departs from the _____. It goes south. After passing the airport, it turns to the northwest. After passing the _____, it turns to the west. There is the _____.

Look at the following description about the position of the shops. Write the name of each shop in the .

- ③ The clock shop is at the south of the fountain.
- ④ The clothes shop is at northwest of the fountain.
- ⑤ The fast food shop is at the southwest of the clothes shop.
- ⑥ The leather goods shop is at the southeast of the fast food shop.
- ⑦ The fountain is at the south of the jewellery shop.



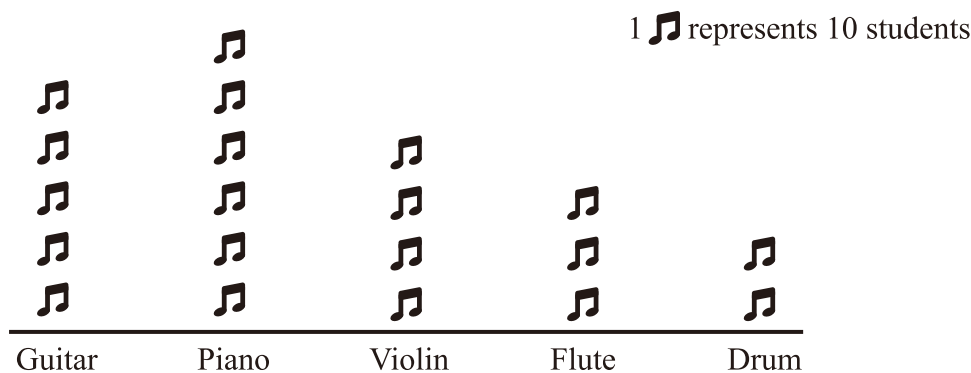
18 Pictograms



Date: _____

The pictogram below shows the favourite musical instruments of primary 5 students. Look at the pictogram and answer the following questions.

Primary 5 students' favourite musical instruments

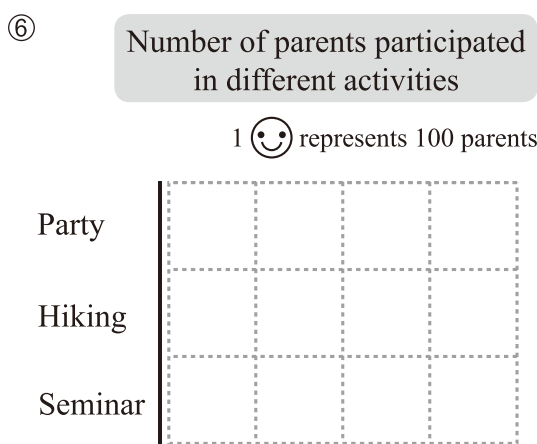


- ① _____ is the most popular musical instrument. _____ students like this music instrument.
- ② _____ primary 5 students joined the survey.
- ③ Students who like _____ are $\frac{3}{4}$ of those who like violin.
- ④ Suppose you are the teacher. If you want to set up some musical instrument courses to attract the most students, you should set up a _____ course and a _____ course.

Mr. Chan recorded the number of the parents participated in three activities. Round off the number of the participants to the nearest hundreds. Then construct the pictogram.

⑤

Activities	Party	Hiking	Seminar
Number of participants	218	287	133
Rounded off to the nearest hundreds			



21 Simple equations



Date: _____

Answer the following questions by setting up equations.

- ① Father is p years old now. Eight years later, he will be _____ years old.
- ② There are y colour pencils in a box. There are _____ colour pencils in 6 boxes.
- ③ The price of 4 kg of meat is w dollars. The price of 1 kg of meat is _____ dollars.
- ④ There were 32 candies in a bag. Kelvin ate some candies and there are k candies left. Kelvin ate _____ candies.

Solve the following equations.

- ⑤ $a - 17 = 18$ $a =$ _____
- ⑥ $3x = 36$ $x =$ _____
- ⑦ $\frac{b}{7} = 14$ $b =$ _____
- ⑧ $48 + s = 52$ $s =$ _____
- ⑨ $16 = 8t$ $t =$ _____
- ⑩ $9 = \frac{r}{5}$ $r =$ _____

Solve the following problems by setting up equations.

- ⑪ Mrs. Cheung paid 80 dollars for 5 pairs of socks. How much is a pair of socks?

Let the price of each pair of socks be b dollars.

The price of each pair of socks is _____ dollars.

- ⑫ The weight of Kenny is 38 kg. He is 6 kg heavier than Yvonne. What is the weight of Yvonne?

Let _____ .

The weight of Yvonne is _____ kg.



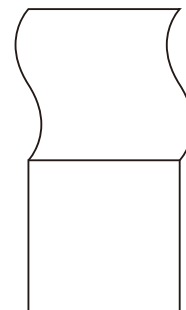
Blacken the circles next to the correct answers.

- ① A solid has 7 faces. Some of them are triangles. What can this solid be?
- ☐ A. A prism whose base is a quadrilateral
- ☐ B. A prism whose base is a pentagon
- ☐ C. A pyramid whose base is a pentagon
- ☐ D. A pyramid whose base is a hexagon
- ② A quadrilateral has one pair of parallel opposite sides. It has two right angles. The quadrilateral is a ____ .
- ☐ A. rhombus ☐ B. rectangle
- ☐ C. trapezium ☐ D. square
- ③ How many lines of symmetry does a rhombus have?
- ☐ A. 1 ☐ B. 2 ☐ C. 3 ☐ D. 4

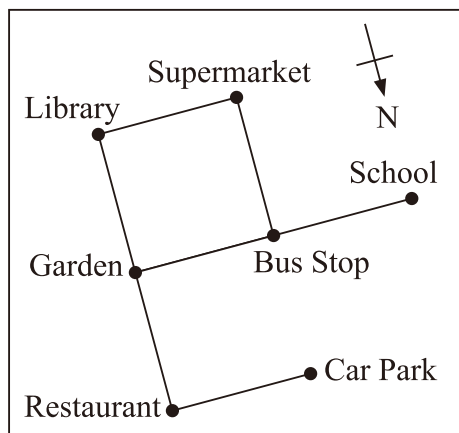
Study the 2-D figures below and answer the following questions.

Look at the figure on the right and answer the following questions.

- ④ The figure has * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)
- ⑤ The figure has _____ right angles.



Look at the map below and answer the following questions.



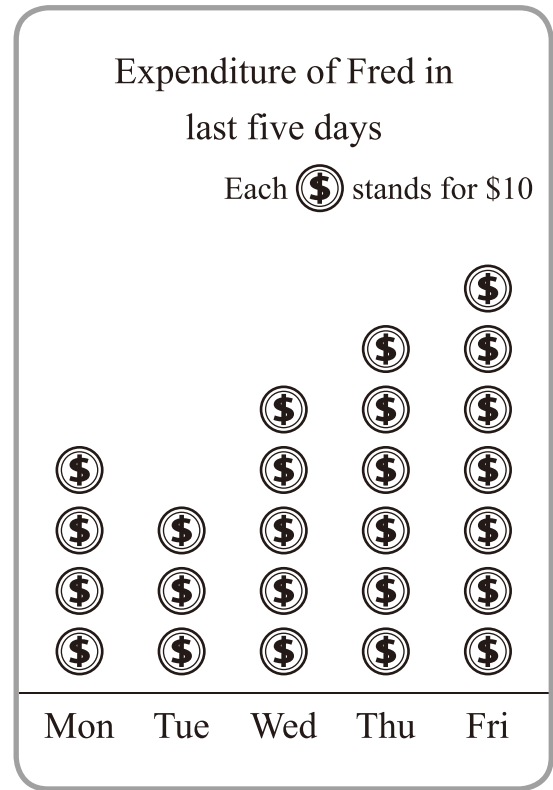
- ⑥ From the supermarket, Jess goes _____ to the bus stop. Then she turns west to the _____ .
- ⑦ From the school, Mick goes _____ to the garden. Then he turns north to the _____ .
- ⑧ The car park is at the _____ of the supermarket.

4 Data Handling Dimension



Date: _____

The following pictogram shows the expenditure of Fred in last five days. Answer the following questions.

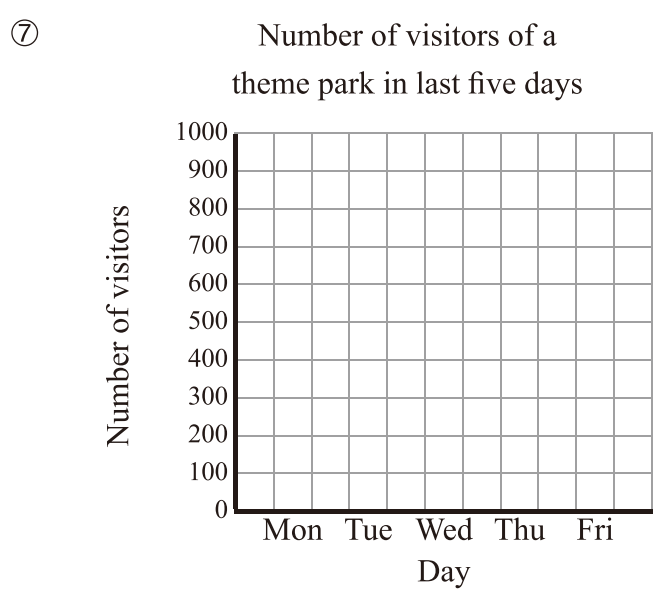


- ① The day with the greatest expenditure was _____ and the amount was _____ .
- ② There were _____ days with expenditure more than \$50.
- ③ The expenditure on _____ was two times that on _____ .
- ④ Fred spent half of his Monday's expenditure on comics. The price of the comics was _____ .
- ⑤ The average daily expenditure in last five days was _____ .

The following table shows the number of visitors of a theme park in last five days. Round off the number of visitors to the nearest tens in the table and complete the bar chart on the right.

⑥

Day of a week	Number of visitors	Rounded off to the nearest tens
Monday	752	
Tuesday	595	
Wednesday	454	
Thursday	801	
Friday	846	



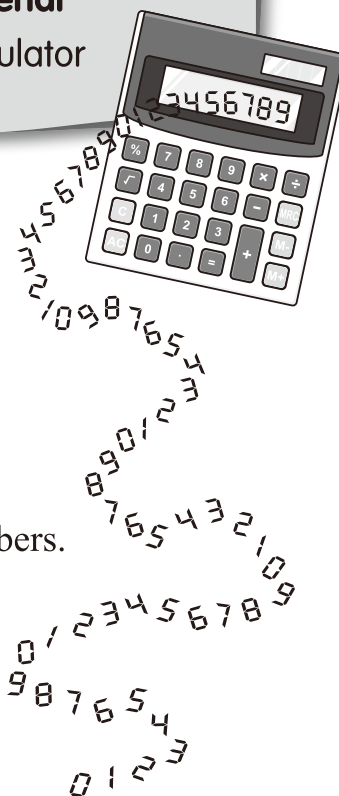


The Magic of Calculator

Objectives

1. Consolidate students' number sense of large numbers.
2. Learn about the number sequences of some special numbers.
3. Learn about the concept of reverse calculation.
4. Learn more about algebra.
5. Strengthen students' number sense.

Material Calculator



Magic 1

1. Enter a random number in the calculator, e.g. 7236.
2. Write the number in reverse order. Then, add the two numbers.
i.e. $7236 + 6327 = 13\ 563$
3. Repeat step 2 until you obtain a symmetrical number.
i.e. $13\ 563 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
 $\underline{\hspace{2cm}} + 49\ 005 = \underline{\hspace{2cm}}$
4. By the steps above, the number 7236 has become a symmetrical number.
5. Repeat the steps above to see if the following numbers can become symmetrical numbers.

(a) $27 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

By the step above, 27 * can / cannot (* circle the answer) become a symmetrical number.

(b) $814 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
 $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

By the steps above, 814 * can / cannot (* circle the answer) become a symmetrical number.

(c) $4069 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
 $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
 $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

By the steps above, 4069 * can / cannot (* circle the answer) become a symmetrical number.

Magic 2

1. Enter the month of your birthday in the calculator. If your birthday month is August, enter 8.
2. First, multiply this number by 2, then add 3 to the number. Lastly, multiply the number by 50.
3. Add your age to that number. If you are 11 years old, add 11 to that number.
4. Subtract 150 from the number to see if the result represents your birthday month and age.



Significance

Magic 1

1. We call those symmetrical numbers the palindromic numbers. For example, 77, 282, 4004, 12321, 642246, etc. But 5656 is not a palindromic number.
2. Most whole numbers can become palindromic numbers after several steps of calculation. However, some whole numbers cannot be changed into palindromic numbers no matter how many calculation steps we perform, e.g. 196. According to the investigations of some mathematicians, more than 5000 whole numbers within 100 000 cannot be changed into palindromic numbers using the above method.
3. Generally, students are interested in numbers with special number arrangement, for example, symmetrical, recursive, etc.