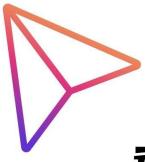


升中一銜接課程

數學科(中英對照筆記)





飛揚升中數學

1 有向數及數線

Directed Numbers and the Number Line

1	(a)	若 +6℃ 表示氣溫上升 6℃・則	表示氣溫下降了6℃。
	(b)	若 -3 kg 表示減肥 3 kg·則 表示	≒增肥3kg。
-			
(a)		If +6°C means the temperature rises by 6°C, then	means the temperature drops by
		6°C.	
(b)		If -3 kg means the weight decreases by 3 kg, then _	means the weight increases by 3 kg.
			<u> </u>
2	(a)	若 +7 km 表示向南走 7 km・則 –7 km 表示	•
	(b)	若 -\$2 000 表示貶值 \$2 000 · 則 +\$2 000 表示 _	<u> </u>
	(a) If 17 less are an applied 7 less to the court than 7 less are as		
2	(a)		
	(b) If -\$2 000 means the value depreciates by \$2 000, then +\$2 000 means		
3	在每	在每對數之間填上正確的符號 "<" 或 ">" 。	
	(a)	-5+8	
	(b)	+70	
		-6 <u> </u> -1	
	(d)	-9 0	
3	In each of the following, fill "<" or ">" in the space provided.		
(a)		_5+8	
(a) (b)		-3+8 +70	
		+/ 0 -61	
(c)		-01	

- **4** (a) 畫一數線,並在線上加點,以表示 $+3 \cdot -3 \cdot 0$ 及 $+2 \cdot$
 - (b) 把 (a) 中的數字由小至大寫出。
- (a) Draw a number line. Use dots to represent the numbers +3, -3, 0 and +2 on the line.
- (b) Arrange the numbers in (a) in ascending order of magnitude.
- 5 計算下列各式。

(a)
$$(-18) + (+5) - (+7)$$

(b) (+6) - (-3) + (-4)

Calculate each of the following.

(a)
$$(-18) + (+5) - (+7)$$

- **(b)** (+6) (-3) + (-4)
- 6 計算下列各式。

(a)
$$(-5) \times (+4) \div (-2)$$

(b)
$$(+8) \div (-2) \times (-3)$$

Calculate each of the following.

(a)
$$(-5) \times (+4) \div (-2)$$

(b)
$$(+8) \div (-2) \times (-3)$$

7 計算下列各式。

(a)
$$(-4)^2 \div (-2) \times (-5)$$

(b)
$$(-12) \times (+7) - (-36) \div (-6)$$

Calculate each of the following.

(a)
$$(-4)^2 \div (-2) \times (-5)$$

(b)
$$(-12) \times (+7) - (-36) \div (-6)$$

F1 MATHEMATICS (中一數學)

8 在冬季的某天,紐約早上的氣溫是 -3°C,下午氣溫上升了 8°C,而晚上下降了 10°C。求晚上的氣溫。

One morning in New York, the temperature was –3°C. It rose by 8°C in the afternoon and dropped by 10°C at dusk. Find the temperature at dusk.

(請同學在飛揚答題紙上作答)

2 Introduction to Algebra

代數簡介

1

試用代數式表示下列各語句。

- (a) 17 減 x。
- (b) y 乘以 9, 並把所得的積加 5。
- (c) 13 in h, 並把所得的和除以 12。
- (d) 18 除以 k, 並把所得的商減 4。

Represent each of the following word phrases by an algebraic expression.

- (a) Subtract x from 17.
- (b) Multiply y by 9 and then add 5 to the product.
- (c) Add *h* to 13 and then divide the sum by 12.
- (d) Divide 18 by k and then subtract 4 from the quotient.

2

用文字描述下列各代數式。

- (a) 8 + m
- (b) $n^2 \times 23$
- (c) $r \div 2 4$
- (d) $(s+6) \div 11$

Use word phrases to describe the following algebraic expressions.

- (a) 8 + m
- (b) $n^2 \times 23$
- (c) $r \div 2 4$
- (d) $(s+6) \div 11$

3

試用代數式表示下列各語句。

- (a) 一個數減 12, 然後把所得的差除以該數。
- (b) 一個數與 3 的積減 6, 然後把所得的差乘以 8。
- (c) 一個數的立方加 15。

Represent each of the following word phrases by an algebraic expression.

- (a) Subtract 12 from an unknown number and then divide the difference by that number.
- (b) Subtract 6 from the product of 3 and an unknown number, and then multiply the difference by 8.
- (c) Add 15 to the cube of an unknown number.

4

文玲買了 5 包餅乾,每包有 b 塊餅乾。小玲有多少塊餅乾?

Rainie buys 5 packets of biscuits. If each packet contains b biscuits, how many biscuits does Rainie have?

5

某店在星期四售出x 件恤衫。星期五所售出的恤衫數目是星期四的3 倍。星期六所售出的恤衫數目比星期五的少16 件。求星期六所售出的恤衫數目。

A shop sold *x* shirts on Thursday. The number of shirts sold on Friday was 3 times that sold on Thursday. The number of shirts sold on Saturday was 16 less than that sold on Friday. Find the number of shirts sold on Saturday.

6

<u>慧妮</u>買了5部計算機,每部的售價是\$x。試以代數式表示以下各題的答案。

- (a) 求慧妮購買計算機須付的金額。
- (b) 若慧妮原有\$y,求她購買計算機後尚餘的金額。

Ellen buys 5 calculators for x each. Use an algebraic expression to represent the answer of each of the following.

- (a) Find the amount that Ellen should pay to buy the calculators.
- (b) If Ellen has \$y originally, find the amount left after buying the calculators.

(請同學在<u>飛揚答題紙</u>上作答)