

## Temperature and Negative Numbers

### Section A

1. Put these temperatures in order, the lowest first.

a)  $2^{\circ}\text{C}$ ,  $-8^{\circ}\text{C}$ ,  $-1^{\circ}\text{C}$ ,  $-6^{\circ}\text{C}$ ,  $-4^{\circ}\text{C}$

b)  $6^{\circ}\text{C}$ ,  $10^{\circ}\text{C}$ ,  $-15^{\circ}\text{C}$ ,  $-11^{\circ}\text{C}$ ,  $14^{\circ}\text{C}$

c)  $16^{\circ}\text{C}$ ,  $18^{\circ}\text{C}$ ,  $-23^{\circ}\text{C}$ ,  $-25^{\circ}\text{C}$ ,  $-13^{\circ}\text{C}$ ,  $12^{\circ}\text{C}$ ,  $20^{\circ}\text{C}$

d) Which of these temperatures is lowest?

i)  $-4^{\circ}\text{C}$  or  $-2^{\circ}\text{C}$

ii)  $-8^{\circ}\text{C}$  or  $8^{\circ}\text{C}$

iii)  $-16^{\circ}\text{C}$  or  $-17^{\circ}\text{C}$

iv)  $-5^{\circ}\text{C}$  or  $-6^{\circ}\text{C}$

### Section B

1. The temperature rises by 15 degrees from  $-4^{\circ}\text{C}$ . What is the new temperature?

2. The temperature falls from  $11^{\circ}\text{C}$  to  $-2^{\circ}\text{C}$ . How many degrees does the temperature fall?

3. The temperature is  $6^{\circ}\text{C}$ . It falls by 8 degrees. What is the temperature now?

4. The temperature is  $-3^{\circ}\text{C}$ . How much must it rise to reach  $5^{\circ}\text{C}$ ?

5. What is the difference in temperature between  $-4^{\circ}\text{C}$  and  $14^{\circ}\text{C}$ ?

### Section C

1. The temperature was  $-5^{\circ}\text{C}$ . It falls by 6 degrees. What is the temperature now?

2. The temperature is  $-11^{\circ}\text{C}$ . It rises by 2 degrees. What is the temperature now?

3. The temperature is  $-20^{\circ}\text{C}$ . How much must it rise to reach  $-5^{\circ}\text{C}$ ?

4. Draw a line graph to show these temperatures at 9.00 a.m. each day for 2 weeks.

$-2^{\circ}\text{C}$ ,  $3^{\circ}\text{C}$ ,  $-1^{\circ}\text{C}$ ,  $1^{\circ}\text{C}$ ,  $4^{\circ}\text{C}$ ,  $2^{\circ}\text{C}$ ,  $-1^{\circ}\text{C}$ ,  $2^{\circ}\text{C}$ ,  $5^{\circ}\text{C}$ ,  $4^{\circ}\text{C}$ ,  $1^{\circ}\text{C}$ ,  $-3^{\circ}\text{C}$ ,  $-5^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$