

(ANSWERS)

Temperature and Negative Numbers

Section A

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

- a) $2^{\circ}\text{C}, -8^{\circ}\text{C}, -1^{\circ}\text{C}, -6^{\circ}\text{C}, -4^{\circ}\text{C}$ $-8^{\circ}\text{C}, -6^{\circ}\text{C}, -4^{\circ}\text{C}, -1^{\circ}\text{C}, 2^{\circ}\text{C}$
- b) $6^{\circ}\text{C}, 10^{\circ}\text{C}, -15^{\circ}\text{C}, -11^{\circ}\text{C}, 14^{\circ}\text{C}$ $-15^{\circ}\text{C}, -11^{\circ}\text{C}, 6^{\circ}\text{C}, 10^{\circ}\text{C}, 14^{\circ}\text{C}$
- c) $16^{\circ}\text{C}, 18^{\circ}\text{C}, -23^{\circ}\text{C}, -25^{\circ}\text{C}, -13^{\circ}\text{C}, 12^{\circ}\text{C}, 20^{\circ}\text{C}$ $-25^{\circ}\text{C}, -23^{\circ}\text{C}, -13^{\circ}\text{C}, 12^{\circ}\text{C}, 16^{\circ}\text{C}, 18^{\circ}\text{C}, 20^{\circ}\text{C}$
- d) Which of these temperatures is lowest?
- i) -4°C or -2°C -4°C
- ii) -8°C or 8°C -8°C
- iii) -16°C or -17°C -17°C
- iv) -5°C or -6°C -6°C

Section B

1. The temperature rises by 15 degrees from -4°C . What is the new temperature? 11°C
2. The temperature falls from 11°C to -2°C . How many degrees does the temperature fall? 13°
3. The temperature is 6°C . It falls by 8 degrees. What is the temperature now? -2°C
4. The temperature is -3°C . How much must it rise to reach 5°C ? 8°
5. What is the difference in temperature between -4°C and 14°C ? 18°

Section C

1. The temperature was -5°C . It falls by 6 degrees. What is the temperature now? -11°C
2. The temperature is -11°C . It rises by 2 degrees. What is the temperature now? -9°C
3. The temperature is -20°C . How much must it rise to reach -5°C ? 15°
4. Draw a line graph to show these temperatures at 9.00 a.m. each day for 2 weeks.

WEEK 1							WEEK 2						
M	T	W	Th	Fr	SAT	SUN	M	T	W	Th	F	S	Su
-2°C	3°C	-1°C	1°C	4°C	2°C	-1°C	2°C	5°C	4°C	1°C	-3°C	-5°C	0°C

* No graph paper at home! Pupils do have graph books - so they should be able to complete the question!