



4 Question Challenge on...

### Comparing Temperatures.

**Q1** Work out the difference between  $-3^{\circ}\text{C}$  and  $4^{\circ}\text{C}$ .

$$\underline{\underline{7^{\circ}\text{C}}}$$

**Q2** At 9pm the temperature in Edinburgh was  $2^{\circ}\text{C}$ .

At 3am the temperature was  $-6^{\circ}\text{C}$ .

By how many degrees did the temperature fall?

$$\underline{\underline{8^{\circ}\text{C}}}$$

**Q3** The table shows the minimum and maximum daily temperatures in six cities in the USA in January.

City	Minimum $^{\circ}\text{C}$	Maximum $^{\circ}\text{C}$
New York	$0^{\circ}\text{C}$	$10^{\circ}\text{C}$
Los Angeles	$8^{\circ}\text{C}$	$18^{\circ}\text{C}$
Chicago	$-4^{\circ}\text{C}$	$8^{\circ}\text{C}$
Houston	$11^{\circ}\text{C}$	$20^{\circ}\text{C}$
Boston	$-2^{\circ}\text{C}$	$13^{\circ}\text{C}$
Anchorage	$-12^{\circ}\text{C}$	$-5^{\circ}\text{C}$

(a) Which city recorded the lowest minimum temperature? *Anchorage*

(b) What is the difference in  $^{\circ}\text{C}$  between Boston's minimum and maximum temperature?  *$15^{\circ}\text{C}$*

(c) What is the difference in  $^{\circ}\text{C}$  between Anchorage's minimum and maximum temperature?  *$7^{\circ}\text{C}$*

**Q4** At 5am the temperature is  $-6^{\circ}\text{C}$ .

By 2pm the temperature went up by  $9^{\circ}\text{C}$ .  *$-6 + 9 = 3^{\circ}\text{C}$*

From 2pm to 11pm the temperature went down by  $15^{\circ}\text{C}$ .  *$3 - 15 = -12^{\circ}\text{C}$*

Work out the temperature at 11pm.