

**Question 1**



One evening last winter the temperature in Cardiff was  $3^{\circ}\text{C}$ , in Belfast was  $-4^{\circ}\text{C}$  and in Edinburgh was  $-10^{\circ}\text{C}$ .

**(a)** Work out the difference in temperature between

**(i)** Cardiff and Belfast, .....  $^{\circ}\text{C}$

**(ii)** Edinburgh and Belfast. ....  $^{\circ}\text{C}$   
**(2 marks)**

The temperature in Belfast increased by  $6^{\circ}\text{C}$ .

**(b)** Work out the new temperature in Belfast.

.....  $^{\circ}\text{C}$   
**(1 mark)**

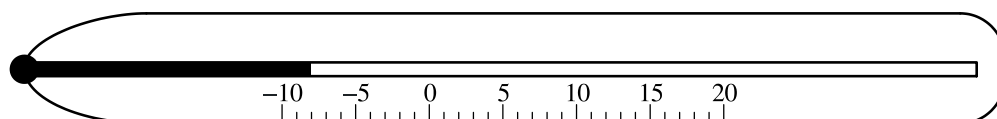
The temperature in Edinburgh fell by  $5^{\circ}\text{C}$ .

(c) Work out the new temperature in Edinburgh.

..... °C  
(1 mark)

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**Question 2**



(a) Write down the temperature shown on the picture of the thermometer. (1 mark)

At 6 a.m., the temperature in Fred' garden was  $-3^{\circ}\text{C}$ .

By noon, the temperature had risen by  $12^{\circ}\text{C}$ .

(b) Work out the temperature at noon. (2 marks)

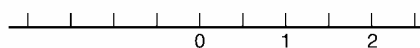
By midnight, the temperature in Fred's garden had fallen to  $-7^{\circ}\text{C}$ .

(c) Work out the fall in temperature from noon to midnight. (2 marks)

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**Question 3**

On the number line mark with an arrow the position of the number.



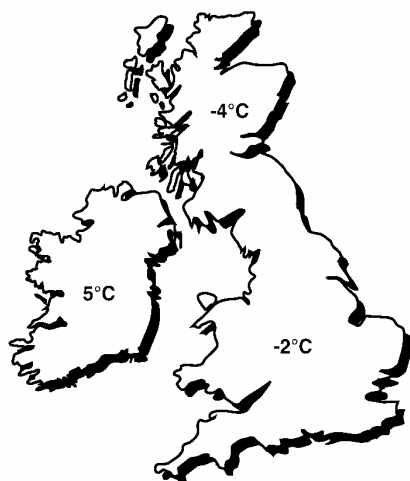
i)  $1\frac{1}{2}$

ii)  $-2$

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**Question 4**

The temperatures in England, Ireland and Scotland were recorded one day last winter.



Here are the results.

Place	Temperature
England	-2° C
Ireland	5° C
Scotland	-4°C

- i) Work out the difference in temperature between Scotland and Ireland.
- ii) Work out the difference in temperature between Scotland and England.

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**Question 5**

The lowest temperatures recorded in Manchester each night for a week are given below.

$7^{\circ}\text{C}$ ,  $-4^{\circ}\text{C}$ ,  $3^{\circ}\text{C}$ ,  $1^{\circ}\text{C}$ ,  $-2^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$ ,  $-1^{\circ}\text{C}$

- (a)** Write down the temperatures in order. Start with the lowest temperature.
- (b)** Work out the difference between the highest and lowest temperatures.

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**Question 6**

The table shows temperatures at midnight and midday on one day in five cities.

City	Midnight temperature	Midday temperature
Belfast	-1° C	6° C
Cardiff	-2° C	4° C
London	-8° C	2° C
York	-5° C	3° C
Aberdeen	-6° C	5° C

- (a) Which city had the lowest midnight temperature? **(1 mark)**
- (b) At midnight how many degrees higher was the temperature in Belfast than York? **(1 mark)**
- (c) Which city had the greatest rise in temperature from midnight to midday? **(1 mark)**
- (d) Which city had the smallest rise in temperature from midnight to midday? **(1 mark)**

### Question 7

The table gives information about five ski resorts on one day in December.

Ski resort	Temperature (°C)	Depth of snow (cm)	
		Lower slopes	Upper slopes
Aspen	−6	75	83
Cortina	4	25	110
Klosters	−8	35	190
Tignes	−3	90	120
Zermatt	0	20	90

- (a) Write down the temperature in Tignes.

..... °C  
(1 mark)

- (b) Write down the depth of snow on the Lower slopes in Aspen.

..... cm  
(1 mark)

The depth of snow on the Upper slopes in one of the resorts was 90 cm.

- (c) Write down the name of this resort.

(1 mark)

- (d) Write down the name of the resort which had the lowest temperature.

(1 mark)

- (e) Write down the greatest depth of snow.

Give your answers in **metres**

..... metres  
(2 marks)

- (f) How many degrees higher was the temperature in Cortina than the temperature in Aspen?

..... °C  
(2 marks)

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**Question 8**

The table gives information about the midday temperatures in four cities on one day in December.

City	Temperature (°C)
Moscow	−10
Washington	10
Canberra	25
Toronto	−12

- (a) How many degrees higher was the temperature in Washington than the temperature in Toronto?  
 ..... °C  
**(2 marks)**
- (b) Work out the difference in temperature between Moscow and Toronto.  
 ..... °C  
**(1 mark)**
- (c) For which two cities was there the greatest difference in temperature?  
**(2 marks)**