

DIRECTED NUMBERS-SET-1

1

The temperature decreases from 25°C to 22°C .
Calculate the percentage decrease.

Answer % [2]

2

The table gives the average surface temperature ($^{\circ}\text{C}$) on the following planets.

Planet	Earth	Mercury	Neptune	Pluto	Saturn	Uranus
Average temperature	15	350	-220	-240	-180	-200

(a) Calculate the range of these temperatures.

Answer(a) $^{\circ}\text{C}$ [1]

(b) Which planet has a temperature 20°C lower than that of Uranus?

Answer(b) [1]

3

During one week in April, in Quebec, the daily minimum temperatures were

-5°C , -1°C , 3°C , 2°C , -2°C , 0°C , 6°C .

Write down

(a) the lowest of these temperatures,

Answer(a) $^{\circ}\text{C}$ [1]

(b) the range of these temperatures.

Answer(b) $^{\circ}\text{C}$ [1]

4	<p>One January day in Munich, the temperature at noon was 3°C. At midnight the temperature was -8°C.</p> <p>Write down the difference between these two temperatures.</p> <p style="text-align: right;"><i>Answer</i> $^{\circ}\text{C}$ [1]</p>
5	<p>In March 2011, the average temperature in Kiev was 3°C. In March 2012, the average temperature in Kiev was 19°C lower than in March 2011.</p> <p>Write down the average temperature in Kiev in March 2012.</p> <p style="text-align: right;"><i>Answer</i> $^{\circ}\text{C}$ [1]</p>
6	<p>At noon the temperature was 4°C. At midnight the temperature was -5.5°C.</p> <p>Work out the difference in temperature between noon and midnight.</p> <p style="text-align: right;"><i>Answer</i> $^{\circ}\text{C}$ [1]</p>

7

The table shows the temperatures in five places at 10 am one day in January.

Place	Temperature (°C)
Helsinki	-7
Chicago	-10
London	3
Moscow	-4
Bangkok	26

(a) Which place was the coldest?

..... [1]

(b) At 2 pm the temperature in Helsinki had increased by 4 °C.

Write down the temperature in Helsinki at 2 pm.

.....°C [1]

8

One day in Chamonix the temperature at noon was 6 °C.
At midnight the temperature was 11 °C lower.

Write down the temperature at midnight.

.....°C [1]

9

The table shows the maximum daily temperatures during one week in Punta Arenas.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
2°C	3°C	1°C	2.5°C	-1.5°C	1°C	2°C

(a) By how many degrees did the maximum temperature change between Thursday and Friday?

Answer (a) [1]

(b) What is the difference between the greatest and the least of these temperatures?

Answer (b) [1]

10

The altitude of Death Valley is -86 metres.
The altitude of Mount Whitney is 4418 metres.
Calculate the difference between these two altitudes.

Answer m [1]

11

In Vienna, the mid-day temperatures, in °C, are recorded during a week in December.
This information is shown below.

-2 2 1 -3 -1 -2 0

Calculate

(a) the difference between the highest temperature and the lowest temperature,

Answer(a) °C [1]

(b) the mean temperature.

Answer(b) °C [2]