

Directed numbers – 2022 O Level Math D

1. June/2022/Paper_11/No.3

The table shows the average monthly temperatures, in $^{\circ}\text{C}$, in Vladivostok.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-12	-8	-2	5	10	14	18	20	16	9	-1	-9

(a) Find the difference between the highest and lowest of these temperatures.

..... $^{\circ}\text{C}$ [1]

(b) In February, the average temperature in Yakutsk is 37°C below that in Vladivostok.

Find the average temperature in Yakutsk in February.

..... $^{\circ}\text{C}$ [1]

2. June/2022/Paper_12/No.4

(a) The temperature inside Luke's house is 18°C .
The temperature outside his house is -3°C .

Find the difference between these temperatures.

..... $^{\circ}\text{C}$ [1]

(b) Luke's thermometer **measures** the temperature correct to the nearest degree.
At midnight, the thermometer **measures** the temperature outside as -6°C .

Find the **upper bound** of the temperature outside at midnight.

..... $^{\circ}\text{C}$ [1]