

N012 Integers, decimals and negatives

Q1.

Write the number two million in figures.

.....
(Total for question = 1 mark)

Q2.

Write down the value of the 4 in the number 542.3

.....
(Total for question = 1 mark)

Q3.

(a) Write these numbers in order of size.

Start with the smallest number.

3517 7135 5713 1357

.....
(1)

(b) Write these numbers in order of size.

Start with the smallest number.

0.354 0.4 0.35 0.345

.....
(1)

(Total for Question is 2 marks)

Q4.

(a) Write these numbers in order of size.

Start with the smallest number.

52 102 25 120 55

.....
(1)

(b) Write these numbers in order of size.

Start with the smallest number.

6 -2 0 -5 3

.....
(1)

(c) Write these numbers in order of size.

Start with the smallest number.

0.63 0.633 0.603 0.6 0.06

.....
(1)

(Total for Question is 3 marks)

Q5.

(a) Write the following numbers in order of size.

Start with the smallest number.

-5 0 -7 4 -10

.....
(1)

(b) Write the following numbers in order of size.

Start with the smallest number.

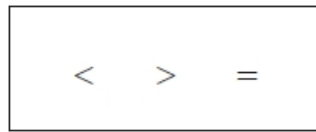
0.52 0.2 0.25 0.205

.....
(1)

(Total for question = 2 marks)

Q6.

Here are three symbols.



Write one of these symbols in each box to make four true statements.

$14 \quad \square \quad 21$

$4 + 7 \quad \square \quad 103 - 92$

$2^2 \quad \square \quad 2 \times 2$

$-3 \quad \square \quad -5$

(Total for question = 2 marks)

Q7.

Here are four digits.

6 3 5 9

(a) Write down the largest three-digit number you can make using three of these digits.
You may only use a digit once.

.....
(1)

Here are the four digits again.

6 3 5 9

(b) Write down the three-digit number, whose value is closest to 600, that you can make using three of these digits.
You may only use a digit once.

.....
(1)
(Total for question = 2 marks)

Q8.

Here are five digits

0 1 3 5 6

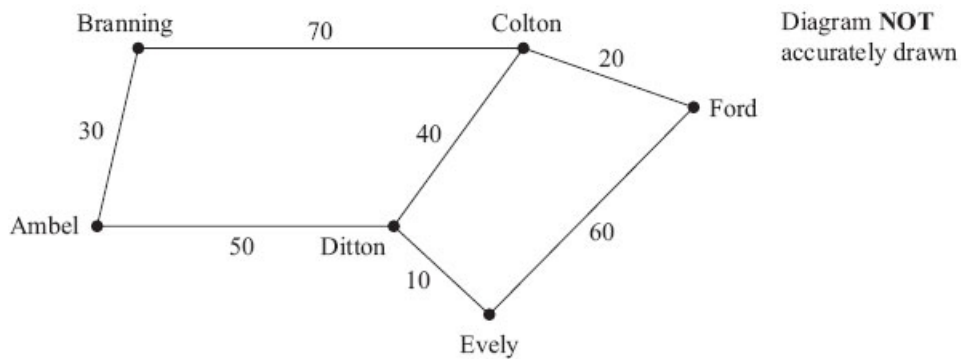
Use each digit once to complete this calculation.

$$\begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} \times 2 = \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array}$$

(Total for question = 2 marks)

Q9.

The diagram shows the distances, in kilometres, between some towns, by road.



Work out the shortest distance between Ambel and Ford by road.

(Total for Question is 2 marks)

Q10.

(a) Work out $+8 - 6$

.....
(1)

(b) Work out $-5 - 4$

.....
(1)

(c) Work out $-12 \div +4$

.....
(1)

(Total for Question is 3 marks)

Q11.

Samina recorded the maximum temperature and the minimum temperature on each of six days in January.

The table shows her results.

	Mon	Tues	Wed	Thurs	Fri	Sat
Maximum temperature	1 °C	3 °C	2 °C	0 °C	3 °C	4 °C
Minimum temperature	- 4 °C	-2 °C	- 4 °C	-5 °C	-3 °C	-2 °C

(a) Write down the lowest temperature.

..... °C
(1)

(b) Work out the difference between the maximum temperature on Wednesday and the minimum temperature on Wednesday.

..... °C
(1)

The minimum temperature on Sunday was 5 °C higher than the minimum temperature on Saturday.

(c) Work out the minimum temperature on Sunday.

..... °C
(1)

(Total for Question is 3 marks)

Q12.

The table shows the minimum temperature on each of six days in January.

	Mon	Tues	Wed	Thurs	Fri	Sat
Minimum temperature	5 °C	-1 °C	-2 °C	-3 °C	-3 °C	-4 °C

(a) Write down the lowest temperature.

..... (1)

(b) Work out the difference between the temperature on Tuesday and the temperature on Saturday.

..... (1)

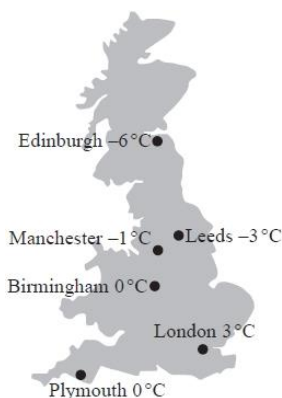
On Sunday, the temperature was 8°C higher than the temperature on Saturday.

(c) Work out the temperature on Sunday.

..... (1)

(Total for Question is 3 marks)

Q13.



The diagram shows the temperatures in 6 cities at midnight one day.

(a) Which city had the highest temperature?

..... (1)

(b) Work out the difference in temperature between

(i) Manchester and Edinburgh,

..... °C

(ii) London and Leeds.

..... °C

..... (2)
(Total for question = 3 marks)

Q14.

The table gives information about the temperatures in Reykjavik for 5 days one week.

Day	Maximum temperature	Minimum temperature
Monday	5 °C	4 °C
Tuesday	8 °C	6 °C
Wednesday	6 °C	-2 °C
Thursday	-1 °C	-4 °C
Friday	-3 °C	-6 °C

(a) Which day had the highest maximum temperature?

..... (1)

(b) What is the lowest minimum temperature?

..... °C (1)

(c) Which day had the greatest difference between the maximum temperature and the minimum temperature?

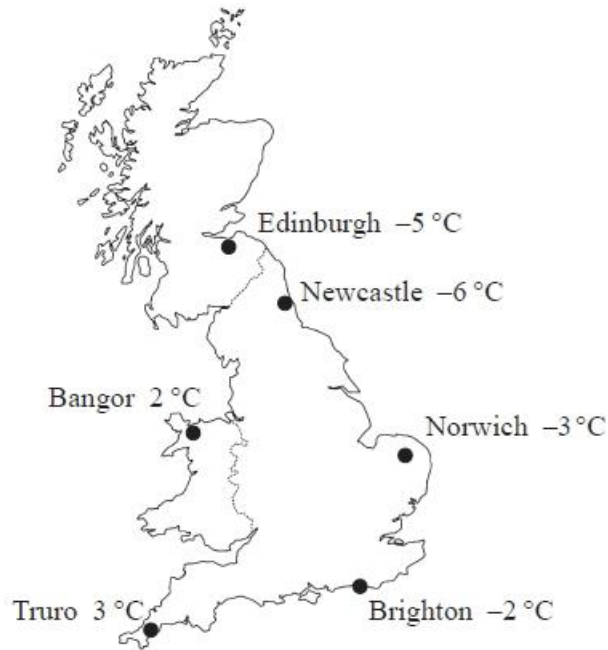
..... (2)

(Total for Question is 4 marks)

Q15.

Here is a map of Great Britain.

The map shows the temperatures in some cities at midnight on 20th January.



(a) Which city had the lowest temperature at midnight?

.....
(1)

In Brighton, the temperature rose by 5°C between midnight on 20th January and midday on 21st January.

(b) What was the temperature in Brighton at midday on 21st January?

..... °C
(1)

At midnight on 20th January, the temperature in Nottingham was halfway between the temperature in Truro and the temperature in Edinburgh.

(c) What was the temperature in Nottingham?

..... °C
(2)

(Total for Question is 4 marks)

Q16.

At 1am on Monday, the temperature in Oslo was $-5\text{ }^{\circ}\text{C}$.

At 1pm on Monday, the temperature in Oslo was $12\text{ }^{\circ}\text{C}$ higher than the temperature at 1am.

At 1am on Tuesday, the temperature in Oslo was $18\text{ }^{\circ}\text{C}$ lower than the temperature at 1pm on Monday.

(a) Work out the temperature in Oslo at 1am on Tuesday.

..... $^{\circ}\text{C}$
(2)

In Malaga, the temperature is $18\text{ }^{\circ}\text{C}$.

In Granada, the temperature is $-6\text{ }^{\circ}\text{C}$.

(b) Work out the difference in temperature between Malaga and Granada.

..... $^{\circ}\text{C}$
(2)

(Total for question = 4 marks)

Q17.

The table shows the temperature every four hours one day in December.

Time	Temperature
2 am	6 °C
6 am	-4 °C
10 am	-2 °C
2 pm	8 °C
6 pm	5 °C
10 pm	-1 °C

(a) Write down the time with the lowest temperature.

..... (1)

(b) Work out the difference between the temperature at 2 pm and the temperature at 6 pm.

..... (1)

Between 10 pm and midnight the temperature goes down 5°C.

(c) Work out the temperature at midnight.

..... (2)

(Total for Question is 4 marks)

Q18.

Here is a map.



The map shows the temperatures in 5 cities at midday.

(a) Which city has the lowest temperature?

.....
(1)

(b) Work out the difference between the temperature in Oslo and the temperature in London.

..... °C
(1)

By midnight, the temperature in Madrid had gone down by 7°C.

(c) Work out the temperature in Madrid at midnight.

..... °C
(1)

(Total for Question is 3 marks)