



Education Consultancy

Edexcel GCSE Mathematics MORE NEGATIVE NUMBERS

Materials Required:

- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
 - Protractor
 - Compass

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Instructions:

- Use a black ink pen to answer all questions
 - Fill your name in the section below
- Answer the questions in the spaces provided
 Show your working out for all answers

Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

NO CALCULATOR ALLOWED

NAME:	
INAIVIL.	

1. Sally wrote down the temperature at different times on 1st January 2003.

Time	Temperature
midnight	−6 °C
4 am	−10 °C
8 am	−4 °C
noon	7 °C
3 pm	6 °C
7 pm	−2 °C

(0)			
(a)	Writ	te down	XO
	(i)	the highest temperature,	
			°C
	(ii)	the lowest temperature.	°C
			(2)
(b)	Wor	k out the difference in the temperature between	L
	(i)	4 am and 8 am,	
			°C
	(ii)	3 pm and 7 pm.	
^			°C
			(2)

At 11 pm that day the temperature had fallen by 5 $^{\circ}$ C from its value at 7 pm.

(c) Work out the temperature at 11 pm.

°C
(1)
(5 marks)

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

City	Midnight Temperature	Midday Temperature
Belfast	−3 °C	4 °C
Cambridge	−1 °C	4 °C
Edinburgh	−7 °C	−1 °C
Manchester	−6 °C	3 °C
London	−2 °C	6 °C

	(a)	Which city had the lowest midnight temperature?	
			(1)
	(b)	How many degrees higher was the midnight temperature in Cambridge than the midnight temperature in Manchester?	
		°C	(1)
	(c)	Which city had the greatest rise in temperature from midnight to midday?	
			(1)
		(3 mark	s)
3.	A + x	nidnight , the temperature was -8° C.	
3.		10:00, the temperature had increased by 6°C.	
	(a)	Work out the temperature at 10:00	
	(a)		
•	G	°C	(1)
0	\		(1)
	Ву 1	midday, the temperature was 4°C.	
y	(b)	Work out the difference between the temperature at midday and the temperature at midnight .	
		°C	
			(2)
		(5 mark	s)

4. The table shows the temperatures in four cities at noon one day.

Oslo	-13°C
New York	−5°C
Cape Town	9°C
London	2°C

(a)	Write down the highest temperature.	0
	°C	(1)
(b)	Work out the difference in temperature between Oslo and New York.	
	°C	
		(1)
(c)	Work out the difference in temperature between Cape Town and Oslo.	
	°C	(1)
At 8	pm the temperature in London was 3°C lower than the temperature at noon.	
(d)	Work out the temperature in London at 8 pm.	
	°C	(1)
	(4 ma	rks)

Temperature City Berlin 5°C London 10°C Moscow −3°C New York 2°C Oslo −8°C 7°C Paris (a) Write down the city which had the lowest temperature. **(1)** (b) Work out the difference in temperature between London and Moscow. **(2)** (3 marks) 6. At midnight, the temperature was -5° C. By 9 am the next morning, the temperature had increased by 3°C. Work out the temperature at 9 am the next morning. (a)°C **(1)** At midday, the temperature was 7°C. Work out the difference between the temperature a midday and the temperature at midnight.°C **(2)**

The table shows the temperatures at midnight in 6 cities during one night in 2006

5.

(3 marks)

7. The table shows the midday temperatures in 4 different cities on Monday.

City	Midday temperature (°C)
Belfast	5
Cardiff	-1
Glasgow	-6
London	-4

(a)	****	• 4 7	
	Which city had the lowest temperature?		
		(1	`

(b) Work out the difference between the temperature in Cardiff and the temperature in Belfast.

By Tuesday, the midday temperature in London had risen by 7 °C.

(c) Work out the midday temperature in London on Tuesday.

 C
(1)
(3 marks)

8.

City	Temperature
City	
Cardiff	−2 °C
Edinburgh	−4 °C
Leeds	2 °C
London	−1 °C
Plymouth	5 °C

The table gives information about the temperatures at midnight in 5 cities.

(a)	Write down the lowest temperature.	
		(1)
(b)	Work out the difference in temperature between Cardiff and Plymouth.	
	°C	(1)

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					°C	
					(2	(1)
						<u>marks)</u>
	corded the m f six days in J	_	perature and the r	ninimum temp	erature	
The table shows	-					
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturd
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	n the leggest t	tomporatura			7	
(a) Write dow	n the lowest t	emperature.				°C
42 W 1	1 1:00				1 1.1	(1)
` /		between the son Wednesday	maximum tempe ′.	rature on Wedi	nesday and th	ne
	1	J				°C
						(1)
The minimum te			5 °C higher than	the		
minimum tempe	rature on Sat	urday.				
(c) Work out t	he minimum	temperature of	on Sunday.			
		Y		•••••	•••••	°C (1)
					(3 marks)
10 771 . 11	Ġ		.1	1 00 1		o marks)
10. The table	shows the ter	nperature on	the surface of each	ch of five plane	ets.	
	Planet	Temp	erature			
30	Venus	48	0 °C			
· C y	Mars	-6	60 °C			
	Jupiter	- 1:	50 °C			
	Saturn	- 18	80 °C			
	Uranus	-2	10 °C			
(a)	1 11.00					
Work out t	the difference	e in temperatu	re between Mars	and Jupiter.		
				••••	• • • • • • • • • • • • • • • • • • • •	
						(1)

(b) Work out the difference	e in temperat	ture between	n Venus and	Mars.		
					°C	(1)
(c) Which planet has a ten	nperature 30	°C higher tl	nan the temp	perature on	Saturn?	4
The temperature on Pluto (d) Work out the tempe			emperature	on Uranus.	°C	(1)
11. The table shows the	highest and	lowest temp	peratures on	ne day in Lo		narks) ow.
		Highest	Lowest			
	London	8°C	-6°C			
	Moscow	-3°C	-8°C			
(a) Work out the differe lowest temperature		the lowest	emperature	in London	and the	
					°C	(1)
(b) Work out the differe	nce between	the highest	and lowest	temperature	e in London.	
AAOY						
				•••••	°C	(4)
27					(2 ma	(1) <u>arks)</u>

2. At initingiti, the temperature was –3°C.	
By 9 am the next morning, the temperature had increased by 3°C.	
(a) Work out the temperature at 9 am the next morning.	
°C	(1)
At midday, the temperature was 7°C.)
(b) Work out the difference between the temperature at midday and the temperature at midnight.	
°C	(2)
(c) Work out the temperature which is halfway between -5°C and 7°C.	
°C (4 marks	(1) <u>)</u>