Edexcel GCSE

Mathematics (Linear) – 1MA0

Student Bounty.com GATIVE NUMBERS

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.

Items included with question papers



Instructions

Use black ink or ball-point pen.

Fill in the boxes at the top of this page with your name, centre number and candidate number. Answer all questions.

Answer the questions in the spaces provided – there may be more space than you need. Calculators may be used.

Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

Read each question carefully before you start to answer it.

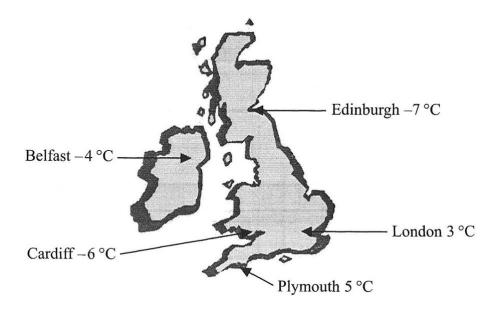
Keep an eye on the time.

Try to answer every question.

Check your answers if you have time at the end.

1. Here is a map of the British Isles.

The temperatures in some places, one night last winter are shown on the map.



(a)	(i)	Write down the names of the two places that had the biggest difference in
		temperature.

.....

(ii) Work out the difference in temperature between these two places.

.....°C

(b) Two pairs of places have a difference in temperature of 2 $^{\circ}$ C. Write down the names of these places.

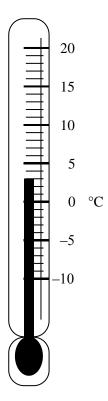
(i) and

(ii) and

(2)

(Total 5 marks)

2.



(a) Write down the temperature shown on the thermometer.

.....°C (1)

The temperature falls by $8^{\circ}C$.

(b) Work out the new temperature.

.....°C (1) (Total 2 marks)

3. 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

(a)	Writ	e down		
	(i)	the highest temperature,		
			°C	
	(ii)	the lowest temperature.		(2)
				, ,
(b)	Wor	k out the difference in the temperature between		
	(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 $^{\circ}\text{C}$ from its value at 7 pm.

(c) Work out the temperature at 11 pm.

°C
(1)
(Total 5 marks)

4. The table shows the temperature on the surface of each of five planets.

Planet	Temperature
Venus	480 °C
Mars	− 60 °C
Jupiter	− 150 °C
Saturn	− 180 °C
Uranus	−210 °C

	Oranus	-210 C	
າ)	Work out the difference	ce in temperature betwee	n Mars and Jupiter.
))	Work out the difference	ce in temperature betwee	°C on Venus and Mars.
			°C
)	Which planet has a ter	nperature 30 °C higher t	han the temperature on Saturn?
Γhe	temperature on Pluto is	20 °C lower than the ten	nperature on Uranus.
d)	Work out the temperat	ure on Pluto.	

.....°C

(1)

(Total 4 marks)

5. 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
Leeds	−6 °C	3 °C
London	−2 °C	6 °C

		London	−2 °C	6°C	1	
(a)	Whi	ch city had the lowe	est midnight tempe	rature?		
(b)		many degrees high		nt temperature in C	ambridge than the	(1)
(c)	Whi	ch city had the grea	test rise in tempera		······°C to midday?	(1)
					(Total 3	(1) (3 marks)

6. 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

.....°C (1)

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

.....°C

At 8 pm the temperature in London was 3°C lower than the temperature at noon.

(c) Work out the temperature in London at 8 pm.

.....°C (1) (Total 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

	Giasgow	-0		
	London	-4		
(a)	Which city had the lowest t	emperature?		
				(1)
(b)	Work out the difference bet Belfast.	tween the temperature in Cardiff	and the temperature in	
			C	(1)

			C
			(Total 3 ma
he table shov	ws the temperature in e	ach of 6 cities on	
	Γ	T	
	City	Temperature	
	Cairo	15 °C	
	Copenhagen	−1 °C	
	Helsinki	−9 °C	
	Manchester	3 °C	
	Moscow Sydney	-14 °C 20 °C	
b) Work ou	nt the difference in tem	perature between	Copenhagen and Cairo.
b) Work ou	ut the difference in tem	perature between	Copenhagen and Cairo.
b) Work ou	at the difference in tem	perature between	°C
	nt the difference in tem		°C
n 2nd Januar	ry 2003, the temperatur	re in Moscow had	°C
n 2nd Januar		re in Moscow had	°C
n 2nd Januar	ry 2003, the temperatur	re in Moscow had	°C I increased by 4 °C.
n 2nd Januar	ry 2003, the temperatur	re in Moscow had	°C

By Tuesday, the midday temperature in London had risen by 7 $^{\circ}\text{C}.$

8.