SMART EXAM RESOURCES CAMBRIDGE LOWER SECONDARY

STAGE 7 PAST PAPERS MATHS

INTEGERS-SET-1

1 The temperatures at sunrise in Berne on the seven days of one week were:

Sunday	-1 °C
Monday	-7 °C
Tuesday	-6 °C
Wednesday	1 °C
Thursday	3°C
Friday	0 °C
Saturday	-4 °C

(a) List the days on which the temperature at sunrise was less than -3 °C.

Answer (a)......[1]

(b) Work out the mean (average) of the seven temperatures.

(a)	Monday, Tuesday and Saturday	1	All three and no extras	
(b)	-20	3	B1 for –14 seen + M1 for (their –14) ÷ 7	
\ \ ' \ \			+ M1 for (their –14) ÷ 7	
		1	1	-

The Hebro.
Find the c. 2 The Dead Sea shore is 395 metres **below** sea level. Hebron is 447 metres **above** sea level.

	842	1	Ignore any or no units after answer. Allow 84200cm.

3

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Minimum temperature °C	4	6	0	-2	-4	2	
Maximum temperature °C	8	10	5	7	2	7	

The table shows the minimum and maximum temperatures on six days of a week.

- (a) (i) On Sunday the minimum temperature was 5 °C lower than on Saturday. The maximum temperature was 2 °C higher than on Saturday. Use this information to complete the table. [2]
 - (ii) Find the difference between the minimum and maximum temperatures on Thursday.

Ans	wer(a)(ii)	 ······································	C [1]

(a)	(i)	-3 9	1	
	(ii)	9	1	ignore minus sign
	+		+	

The table below shows the average monthly temperatures (°C) in the Islas Orcadas, Argentina.

Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1	1	0.5	-1	-5	-8	-9	-8	-5	-3	-1	0.5

(a) Work out the difference between the highest and the lowest average monthly temperature.

Answer(a) _____°C [1]

Jabox, ae value o. **(b)** The highest recorded temperature for July is $x \, ^{\circ}$ C. This is 21 °C above the average for July shown in the table. Work out the value of *x*.

(a) (b)	10 (allow –10) 12	1 1	
		1	

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5

Choose one of the symbols given above to complete each of the following statements.

When x = 6 and y = -7, then

- Man. Smartetannes ources com (a) x y [1]

(a) (b) (c)	> < <	1 1 1 [15]	
		[15]	

6 The temperature at noon at an Antarctic weather centre was -15 °C. At midnight it had fallen by 12 °C. What was the temperature at midnight?

Man smartetannesources com *Answer* _____ °C [1]

–27	1	