			DIRECTE	ED NU	JMBER	S-SET	-1			
1	The temperature decreases from 25 °C to 22 °C. Calculate the percentage decrease.									
						swer			%	[2]
MS-1		(-)	)12		2	M1 for	$\frac{-22+2}{25}$	5 -×100%	oe	2
		•				· · · · ·		7,		
2	The t	table gi	ves the average surfa	ice tempe	erature (°C) o	on the follow	ving plan	ets.		
			Planet	Earth	Mercury	Neptune	Pluto	Saturn	Uranus	
		Av	erage temperature	15	350	-220	-240	-180	-200	
	(a) Calculate the range of these temperatures.									
	Answer(a)°C [1]									
	<b>(b)</b> Which planet has a temperature 20 °C lower than that of Uranus?									
	Answer(b)[1]									
MS-2		(a)	(-)590			1				
		(b)	Neptune			1				
3	Dur	ing one	week in April, in Qu	iebec, the	daily minim	ium tempera	itures wer	e		
		-5°C,	-1°C,	3°С,	2°C,	$-2^{\circ}$	°C,	0°С,	6°C.	
	Write down									
W.	(a) the lowest of these temperatures,									
						Answe	er(a)		°C	[1]
	(b)	the ran	nge of these temperat	ures.						_ <b>-</b>
			-			Answe	er(b)		°C	[1]

MS-3							
(a) -5							
<b>(b)</b> 11							
4 One January day in Munich, the temperature at noon was 3°C.							
At midnight the temperature was $-8^{\circ}$ C.							
Write down the difference between these two temperatures.							
Answer	°C [1]						
MS-4 (a) 1.32656 1							
(b) 1.327 1ft							
In March 2011, the average temperature in Kiev was 3°C. In March 2012, the average temperature in Kiev was 19°C lower than in March 2011.	In March 2011, the average temperature in Kiev was 3°C.						
· (/)	, (V)						
write down the average temperature in Kiev in March 2012.	Write down the average temperature in Kiev in March 2012.						
Answer	Answer°C [1]						
MS-5 - 16 1							
At noon the temperature was 4 °C.  At midnight the temperature was -5.5 °C.							
Work out the difference in temperature between noon and midnight.	Work out the difference in temperature between noon and midnight.						
Answer	Answer°C [1]						
MS-6							
MS-6 9.5 <b>1</b>							

7	The table	e shows the temper	ratures in five places	s at 10 am	one dav in J	anuarv.		
		r				7		
	Place Temperature (°C)							
			Helsinki		<del>-7</del>	, 		
			Chicago	-	-10			
			London		3			
	Moscow -4							
			Bangkok		26			
	(a) Which place was the coldest?							
						(		[1]
	<b>(b)</b> At 2	2 pm the temperatu	re in Helsinki had ii	ncreased by	y 4°C.			
	Wri	te down the tempe	rature in Helsinki a	t 2.pm				
	,,,,,	or do wit the temp		- p				00.513
								°C [1]
MS-7	(a)	Chicago		.0	1			
	(b)	-3			1			
8			emperature at noon e was 11°C lower.	was 6°C.				
	Write dov	wn the temperature	e at midnight.					
		\(\int_{\infty}\)						°C [1]
MS-8								
	G	5				1		

9	The table shows the maximum daily temperatures during one week in Punta Arenas.								
	Monday	Tuesday	Wednesday	Thursday	Friday	Sat	turday	Sunday	
	2°C	3°C	1°C	2.5°C	−1.5°C		1°C	2°C	
	(a) By how many degrees did the maximum temperature change between Thursday and Friday?  Answer (a)								
MS-9	(a) 4 (b) 4.5 1 Allow – 4 Allow – 4						5		
	1								
10	The altitude of The altitude of Calculate the	of Mount W	hitney is 4418	8 metres. e two altitude				m [1]	
MS-10	(-)4504					1	Allo	w (-)4500	

11	In Vienna, the mid-day temperatures, in °C, are recorded during a week in December. This information is shown below.
	-2 2 1 $-3$ $-1$ $-2$ 0
	Calculate
	(a) the difference between the highest temperature and the lowest temperature,
	Answer(a)°C [1]
	(b) the mean temperature.
	Answer(b)°C [2]
MS-11	(a) 5 or -5
	<b>(b)</b> $-0.714 (-0.7143 \text{ to } -0.7142) \text{ or } -\frac{5}{7}$ <b>2 M1</b> for $-2 + 2 + 1 - 3 - 1 - 2$ and $\div 7$

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