HOME WORK: (Q9b,c,d,e,f)

9. A classmate is recording the weather during July for a school project and wants help calculating information. He records the following data for one week.

		Tue					Sun
Max (°C)	12.2	14.5 (16.7	12.8	11.3	7.2	-0.3
Min (°C)	3.0	2.1	4.6	3.2	6.4	-2.9	(-6.0)

e) -6.0 + 6.5 = 0.5 °C Monday right 0.5 °C -3.2 °C = -2.7 °C Tuesday morning -2.7 °C + 8.9 °C = 6.2 °C Tuesday right

12.49->12.5

Round all answers correct to 1 d.p.

a. What is the difference between the lowest temperature and the highest temperature recorded during

di4+ = Tm x - Tmin = 16.7 - (-6.0) = 22.7

12.45 ->12.5 **b.** What is the average (mean) minimum temperature? 12,44->12.4

c. Your classmate tries to predict temperatures and says that He says this is the same as dividing by -4. Explain why

the minimum temperature $=\frac{1}{4} \times \text{maximum temperature}$. this may not be correct. **d.** He then tries to make another prediction that involves

taking the square root of the maximum temperature. Why might this not be a good idea? e. On the Monday after this week, the temperature rises

by 6.5 °C from Sunday's minimum temperature. It then drops by 3.2 °C overnight and rises by 8.9 °C on the Tuesday. What is the minimum temperature on the Monday night and the maximum temperature on the Tuesday? 6 2 6

f. His last prediction involves subtracting 6 from the maximum temperature, then dividing by 2 to predict the minimum temperature. Calculate the predicted values for the minimum temperature for each of his three methods and discuss which method may be most accurate.

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b) average (mean) =
$$\frac{add}{numbers} = \frac{add}{numbers} = \frac{add}{numbers} = \frac{3.0 + 2.1 + 4.6 + 3.2 + 6.4 + (-2.9) + (-6.0)}{7}$$

$$= \frac{10.4}{7} = \frac{10.4$$

c) the negative sign would REVERSE the original sign that the Tmax has

What is a limitation of square roots?

$$= 2i$$

*there is no value that you can SQUARE to get a negative 4...

$$(-2)^2 = 4$$

 $2^2 = 4$

In our set of Tmax values, there is -0.3, which CAN NOT be put into the square root.

Wed

Thu

Fri

Sat

Sun

HOME WORK

Mon

		Max (°C)	12.2	14.5 (16.7	12.8	11.3	7.2	-0.3
		Min (°C)	3.0	2.1	4.6	3.2	6.4	-2.9	(-6.0)
Method 1		Tmax 4	3.05	3.6	4.2				
Method 2		JTmax	3.5	3.8	4.1				
Mohod ?	<u> </u>	Tmax - 6	3.1	4.3	5.4				

Tue

Complete the table above. - Find rest of valves (Thu-Sun) - Tick the closest value to Thin (1) - Comment on the best method
for estimating Thin (#1, #2 or #3).