

Answer on Question#63163 – Physics – Molecular Physics

If a thermometer reads freezing point of water as 20celcius and boiling point 150celcius how much thermometer read when the actual temp is 60celcius

Solution. The actual temperature of the freezing point of water is 0celcius and boiling point 100celcius. The actual temperature difference of 100 degrees corresponds to the difference in temperature on the thermometer 130. This means that if you change the actual water temperature by one degree is the temperature change of 1.3 degrees on the thermometer. Hence for actual temperature water 60celcius

$$20 + 1.3 \cdot 60 = 98$$

thermometer reads 98celcius.

Answer. 98celcius.

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