

Answer on Question#63163 – Physics – Molecular Physics

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

Solution. The actual temperature of the freezing point of water is 0°C and boiling point 100°C. 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 60°C

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

thermometer reads 98°C.

Answer. 98°C.

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