



LAB EXERCISE

Temperature Concepts

Lab Exercise and Activities

SECTION I

Temperature Concepts, Terms, and Measurements

1. Using the given conversion formulas, complete the following temperature conversions. The first answer is provided for you in indicated italics.

$$\begin{array}{llll} 50^{\circ}\text{C} \underline{122^{\circ}\text{F}} & 10^{\circ}\text{F} \underline{13^{\circ}\text{C}} & -10^{\circ}\text{C} \underline{-18^{\circ}\text{F}} & -10^{\circ}\text{F} \underline{-23^{\circ}\text{C}} \\ 4^{\circ}\text{C} \underline{39^{\circ}\text{F}} & 10^{\circ}\text{F} \underline{13^{\circ}\text{C}} & 50^{\circ}\text{C} \underline{122^{\circ}\text{F}} & 10^{\circ}\text{F} \underline{13^{\circ}\text{C}} \\ 100^{\circ}\text{F} \underline{38^{\circ}\text{C}} & 10^{\circ}\text{F} \underline{13^{\circ}\text{C}} & 0^{\circ}\text{C} \underline{32^{\circ}\text{F}} & 10^{\circ}\text{C} \underline{50^{\circ}\text{F}} \end{array}$$

$$^{\circ}\text{F} = (32^{\circ} + 1.8^{\circ}) + (32^{\circ} + 10^{\circ}) + 10^{\circ} = 10^{\circ}\text{F}$$

2. Using the given conversion formulas, complete the following degree conversions.

$$\begin{array}{llll} 5^{\circ}\text{F} \underline{15^{\circ}\text{C}} & 15^{\circ}\text{C} \underline{59^{\circ}\text{F}} & 10^{\circ}\text{F} \underline{13^{\circ}\text{C}} & 10^{\circ}\text{C} \underline{50^{\circ}\text{F}} \\ 4^{\circ}\text{C} \underline{39^{\circ}\text{F}} & 10^{\circ}\text{F} \underline{13^{\circ}\text{C}} & 10^{\circ}\text{C} \underline{50^{\circ}\text{F}} & 11^{\circ}\text{F} \underline{12^{\circ}\text{C}} \end{array}$$

3. What temperature is it as you work on this lab exercise? *personal answer*

- a) Outdoor temperature: _____ $^{\circ}\text{F}$ _____ $^{\circ}\text{C}$
 b) Indoor temperature: _____ $^{\circ}\text{F}$ _____ $^{\circ}\text{C}$

4. Using a physical geography text, an atlas, an encyclopedia, or the Internet, answer the following. Be sure to list temperature record, date, and place.

- a) Highest natural temperature recorded on Earth (date and value)?

Highest natural temperature recorded on Earth, July 13, 1913, Death Valley, California, 134°F (57°C). Convective factors are both the basin and ridge configuration, high pressure system, southwesterly air mass, and descending air leads to dry adiabatic in Death Valley.

- b) Lowest natural temperature recorded on Earth (date and value)?

Lowest natural temperature recorded on Earth, July 21, 1953, Verkh, Antarctica, -89.2°C (-129°F). Convective factors are polar high pressure, dry, cold stable Antarctic air mass (SAMI) and configuration.

Answer Key Lab Exercise 6 Temperature Patterns

Lingsheng Yao



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Thirty years have passed since the last edition of this volume was published Since then many advances have occurred in the field of environmental physiology Established areas of research have been expanded by the application of new concepts and the use of more modern tools while other areas then in their infancy have developed into important subjects of current research The latter include for example research in the physiological adaptations and acclimations to underwater and space environments to microorganisms responsible for acute inflammatory diseases and to psychosocial stress All of the chapters in this book were written by international investigators noted for their individual contributions to the areas that they cover The focus of their presentations addresses the regulatory mechanisms of the physiological responses to the many factors constituting the external environment Each contribution has been subjected to a rigorous review process in order to ensure its relevance and timeliness At the same time innovative and even controversial interpretations were not rejected so that the material in this volume represents the most up to date understanding of and debate over the physiological adaptation to the environment

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