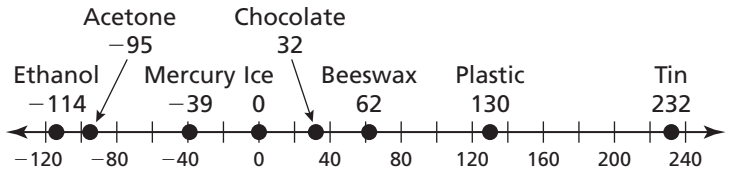
Name _____ Date _____

Chapter 1 Performance Task (continued)

Rubric

Melting Matters	Points
1. 	**8** Total possible points **1** Point each for correct point and label
2. tin; ethanol	**2** Total possible points **1** Point for each correct answer
3. 0, 32, −39, 62, −95, −114, 130, 232; chocolate's melting point	**4** Correctly orders all of the temperatures **3** Correctly orders most of the temperatures **1** Correctly orders very few of the temperatures
4. 61°C	**2** Total possible points for correct answer
5. no; Mercury's melting point is –39°C. This means that mercury is in a solid state at any temperature lower than –39°C. The temperature on the East Antarctic Plateau was –93.2°C, which is much lower than mercury's melting point. A mercury thermometer would be frozen and would not work in such a climate.	**4** Thoughtful response that references calculations **2** Well-written response without reference to calculations **1** Poorly written response without reference to calculations
Mathematical Practices: Decipher relationships in problems, solutions, and mathematical representations. Students will consider relationships between the absolute values of integers and devise strategies for solving problems.	**5** The student demonstrates knowledge of absolute value and uses strategies to solve problems. Award partial credit as needed.
Total Points	**25 points**