

HANDOUT: Measuring Temperature (2 pages)

Skill Builders: Conversion

IN THE WORKPLACE: Accurately taking and interpreting measurements are fundamental skills across the trades. Errors in interpreting and reporting measurements can result in significant losses to the company in product lost or equipment damaged. In the oil and gas industry, mud mixtures need to be maintained at constant temperatures between 15 and 20 degrees Celsius OR between 70 and 80 degrees Celsius.

Refer to the **Thermometers** on the next page to answer the following questions.

1. Compare measurements A and B. Which mixture is hotter?

2. What is the temperature in degrees Celsius of the mixture measured in C?

3. Calculate the temperature in degrees Fahrenheit of the mixture measured in E. Round your answer to the nearest whole degree.

4. Which is the coolest mixture?

5. The temperature measurements were taken, in the order presented, from the same site over the course of one day. Any sudden changes in temperature need to be reported. Which measurement(s) signal a sudden change?

6. Review all the temperature measurements taken. Describe the trend that occurred over the day.

7. To measure the temperature and other properties of the mud mixture safely workers need to wear appropriate PPE. The available heat-resistant gloves are recommended for use with temperatures over 110 degrees F. For which measurement(s) should heat resistant gloves be worn?

Thermometers



Thermometer A



Thermometer B



Thermometer C



Thermometer D



Thermometer E



Thermometer F



Thermometer G



Thermometer H

Ref: Bow Valley College. (2020). Thermometers. Calgary, Canada: Author.