

Chemistry Practice Problems - Metric System

1. Which of the following is the base unit of mass in the metric system?
 - A. Gram
 - B. Kilogram
 - C. Milligram
 - D. Centigram
2. Convert 5 kilometers to meters.
 - A. 500 meters
 - B. 5,000 meters
 - C. 50,000 meters
 - D. 500,000 meters
3. How many milliliters are in 2 liters?
 - A. 20 milliliters
 - B. 200 milliliters
 - C. 2,000 milliliters
 - D. 200,000 milliliters
4. If a substance has a mass of 250 grams, what is its mass in kilograms?
 - A. 0.25 kilograms
 - B. 2.5 kilograms
 - C. 25 kilograms
 - D. 250 kilograms
5. What is the prefix for one thousandth in the metric system?
 - A. Milli-
 - B. Centi-
 - C. C. Deci-
 - D. D. Kilo-
6. Which of the following is equivalent to 0.75 meters?
 - A. 750 millimeters
 - B. 75 millimeters
 - C. 7,500 millimeters
 - D. 750,000 millimeters
7. Convert 3.2 kilograms to grams.
 - A. 32 grams
 - B. 320 grams
 - C. 3,200 grams
 - D. 32,000 grams

8. Which measurement is larger: 1,000 milliliters or 1 liter?

- A. 1,000 milliliters
- B. 1 liter
- C. They are equal
- D. Cannot be determined

9. How many centimeters are in a meter?

- A. 10 centimeters
- B. 100 centimeters
- C. 1,000 centimeters
- D. 10,000 centimeters

10. What is the metric unit for measuring temperature?

- A. Fahrenheit
- B. Kelvin
- C. Celsius
- D. Joule

Answer Key

1. The base unit of mass in the metric system is the kilogram. Correct Answer: B

2. 1 kilometer is equal to 1,000 meters. Therefore, 5 kilometers is equal to 5,000 meters. Correct Answer: B

3. 1 liter is equal to 1,000 milliliters. Therefore, 2 liters is equal to 2,000 milliliters. Correct Answer: C

4. There are 1,000 grams in a kilogram. Therefore, 250 grams is 0.25 kilograms. Correct Answer: A

5. The prefix for one thousandth in the metric system is milli-. Correct Answer: A

6. 1 meter is equal to 1,000 millimeters. Therefore, 0.75 meters is equal to 750 millimeters. Correct Answer: A

7. 1 kilogram is equal to 1,000 grams. Therefore, 3.2 kilograms is equal to 3,200 grams. Correct Answer: C

8. 1 liter is equal to 1,000 milliliters, so they are equal. Correct Answer: C

9. There are 100 centimeters in a meter. Correct Answer: B

10. The metric unit for measuring temperature is Kelvin. Correct Answer: B