Measurement Test Study Guide

* Instrument used for measuring mass triple beam balance
* amount of space an object occupies volume
* temperature scale used in the metric system Celsius
* an object’s mass divided by its volume density
* Instrument used to measure the volume of liquids and irregularly shaped objects graduated cylinder
* unit of mass in the metric system gram
* unit of volume used in the metric system liter
* measure of gravitational pull on an object weight
* amount of matter in an object mass
* unit of length used in the metric system meter



36o

78o

49o

52o

61o



13o

26o

-45o

4o

-7o



17.8 ml

19 ml

2.3 ml

14 ml



4 ml

50 ml

8 ml

24 ml

Read the triple beam balance and record the mass.

 \_\_\_\_\_\_\_\_\_\_\_\_\_

541 g

 \_\_\_\_\_\_\_\_\_\_\_\_\_

66.5 g

\_\_\_\_\_\_\_\_\_\_\_\_\_

105.7 g

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_

472.9 g

|  |  |  |  |
| --- | --- | --- | --- |
| **MASS** | **VOLUME** | **DENSITY** | **Will this item sink or float in water?** |
| 5.02 g | 6.10 mL | .823 g/ml | float |
| 1.0235 g | .2589 mL | 3.953 g/ml | sink |
| .3025 g | 25.01 mL | 0.0121 g/ml | float |
| 8.89 g | 3.254 mL | 2.732 g/ml | sink |
| 215.7 g | .15369 mL | 1403.47 g/ml | sink |

Solve the word problems.

A block of wood has a mass of 280 grams. It is 10.0 cm long,

6.0 cm wide, and 2.0 cm thick. What is its density? 2.33 g/cm3

A bar of gold has a mass of 281.9 grams and a volume of 11 ml. What is its density? 25.63 g/ml

A rock raises the water in a cylinder from 20 ml to 40 ml. It has a mass of 6.5 grams. What is its density? 0.325 g/ml