Percent Error & Density

Percent error

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ value of the accepted value – the experimental value, multiplied by 100.

-Percent error is always a \_\_\_\_\_\_\_\_\_\_\_\_\_ number.

Percent error = accepted value – experimental value x 100

 accepted value

Ex: You measure the temperature of the room and get 32.1oC. The actual room temperature is 21.2 oC. What is your percent error?

Density

-Ratio of the mass of an object to its volume.

- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_property

Density = mass

 volume

Ex: A copper penny has a mass of 3.1 g and a volume of 0.35 cm3. What is the density of copper?