

1. Underline the observations below.

The ball is round. The ball is orange.

The ball is full of air. The ball bounces.

Because it is round, the ball is a basketball.

2. Underline the quantitative observations below.

My hair is brown. I am 5 feet tall.

I have brown eyes. I have small feet.

I wear a size 6 shoe. I have curly hair.

3. The amount of space an object occupies is a measure of its _____.

The amount of matter in an object is a measure of its _____.

4. What is the base unit for each of the following?

length _____ mass _____ volume _____ temperature _____

5. What two things must be included in a measurement?

_____ and _____

6. What is the volume of a cube that measures 3.0 cm on each side? You must show your work!

7. A graduated cylinder has 32.0 mL of water in it. A 3.0 cm³ rock is dropped into the graduated cylinder. What is the new volume reading for the graduated cylinder? You must show your work!

8. An empty beaker has a mass of 115 g. After some water is added to the beaker, the mass is 147 g. What is the mass of the water? You must show your work!