NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**3**

 DATE\_\_\_\_\_\_\_\_\_\_\_\_PER\_\_\_\_\_\_\_\_



1. Label the above prefix figures with the correct number amount.

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the distance between two points.

3. Which tools do scientists use to measure length?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (mm, cm, m)

4. Which is larger a millimeter or a kilometer? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Which is smaller a decimeter or a decameter? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. What is the basic unit of measurement for length? \_\_\_\_\_\_\_\_\_\_\_\_\_

7. Which unit of measurement is the distance between your two fingers as

 close as they could be without touching? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



8. Which is longer a mile or a kilometer?

9. Which is longer an inch or a centimeter?

10. Which is longer a meter or a yard?



Write a Comparisons, Examples, or Objects that are

**close** to the following units of lengt

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Kilo-meter | Hecto-meter | Deka-meter | METER | Deci-Meter | Centi-Meter | Milli-Meter |
| Comparison #1 | A little over half a mile | Length of football field | Length or width of a bedroom | Baseball Bat | Length of new Pencil | Width of paper clip | Thickness of finger nail |
| Comparison #2 |  |  |  |  |  |  |  |



NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**4**

DATE\_\_\_\_\_\_\_\_\_\_\_\_PER\_\_\_\_\_\_\_\_\_

**Part 1 Mass of Solids**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the amount of matter in an object.

2. What tool do scientist use to measure mass?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or the TBB ☺

3. What is the unit of measurement for mass? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. How to use a Triple Beam Balance:



 **Part 2 Mass of LIQUIDS**

**MASS OF LIQUID** =

 Mass of **CONTAINER & LIQUID** (*MINUS*) Mass of **EMPTY CONTAINER**

5.Draw a picture that illustrates the formula for finding the mass of a

liquid below.

**Part 3 Measuring Mass Lab Practice**

1.

2. Find the mass of the following solids using a **Triple Beam Balance**:

|  |  |
| --- | --- |
| **Object** | **Mass (grams)** |
| 1. Wooden Block |  |
| 2. Scissors |  |
| 3. Dice |  |
| 4. Wooden Ruler  |  |

3. Find the mass of the following liquids using a **Triple Beam Balance** and **Graduated Cylinder**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Liquid** | **STEP 1 Mass of Graduated Cylinder (g)** | **STEP 2 Mass of Graduated Cylinder & Liquid (g)** | **STEP 3** **Mass of Container & Liquid** **MINUS** **Mass of Container** **(grams)** |
| **Liquid 1** |  |  |  |
| **Liquid 2** |  |  |  |

**VOLUME** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**5**

DATE\_\_\_\_\_\_\_\_\_\_\_\_PER\_\_\_\_\_\_\_\_\_

**Part 1 Measuring Volume PPT**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the amount of space an object takes up.

2. Volume of a LIquid



3. What tools do scientists use to measure Volume of

 a. Liquid: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (mL)

 b. Solid:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(cm3)

4. Volume of a Regular Shaped Object (cube)



5. Volume of Irregular Shaped Object (rock) Formula =

 Volume of Object & \_\_\_\_\_\_\_\_ **MINUS** Volume of Object



**Part 2 Measuring Volume Lab Practice**

1. What is the volume of each liquid in the first four cylinders? Record below.
2. The volume of the liquid in cylinder 5 before the rock was placed inside was 25 mL.
3. What is the volume of the liquid & rock?\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the volume of just the rock? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the name of the process used to find the volume of an irregular shaped object> \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

****

3. Find the volume of 3 marbles by filling a graduated cylinder to 20 ml. Drop the marbles in and see how much the water rises – this is the volume of the marbles. Complete the table below.

**WATER DISPLACEMENT**

|  |  |  |
| --- | --- | --- |
| **A)** Volume of water before adding marbles | **B)** Volume of water after  adding 3 marbles | **C)** Volume of 3 Marbles**B minus A** |
|  |  |  |

4. What is the volume of the large dice . Use formula: Volume = L x W x H

 \_\_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_cm3

5. What is the volume of the small paper cut?

 \*Hint: a. fill the cup all the way to the top with water.

 b. pour the water from the cup into a cylinder to measure the

 amount of water.

 c. Volume of CUP = \_\_\_\_\_\_\_\_\_\_\_\_\_mL

