## Metric Mania

Lesson 2: Mass

1 Pound or 100 Grams

1 Kilogram or 1 Pound 1 Ounce or 1000 Milligrams

2.  $1 lb = ____ g$ 

100 kg = 100 lb 1 oz = 100 mg

3. \_\_\_\_\_ refers to the amount of matter in an object.

4. The base unit of mass in the metric system in the \_\_\_\_\_ and is represented by \_\_\_\_.

5. A kilogram is equal to the mass of the \_\_\_\_\_ (IPK), a platinum-iridium cylinder kept by the BIPM at Sèvres, France.

6. Complete each statement.

$$1 \text{ kg} = \underline{\qquad} \text{g} \qquad 1 \text{ g} = \underline{\qquad} \text{mg}$$

8. What instrument will we use to find the mass of objects?

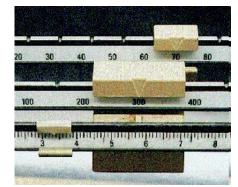
7. Which is larger? Circle your choice for each one.

A. 1 kilogram or 1500 grams

C. 12 milligrams or 12 kilograms

B. 1200 milligrams or 1 gram D. 4 kilograms or 4500 grams

9. What would be the mass of the object measured in the picture?



10. How do you use a triple-beam balance? Fill in the blanks.

1st – Place the film canister on the \_\_\_\_\_\_.

2nd – Slide the large \_\_\_\_\_\_ to the right until the arm drops below the line and then move it back one notch.

3rd – Repeat this process with the \_\_\_\_\_ weight. When the arm moves below the line, back it up one groove.

4th – Slide the \_\_\_\_\_ weight on the front beam until the \_\_\_\_ match up.

5th – Add the amounts on each beam to find the total \_\_\_\_\_\_ to the nearest tenth of a gram.