**Nuts for Nuts**

1. Place 10 of the ¼ inch nuts is the large graduated cylinder.
2. Add 10 mL of water at a time until the nuts are completely covered.

Total Water Added: \_\_\_\_\_\_\_ mL

Total Volume: \_\_\_\_\_\_ mL

Volume of 10 of the ¼ inch nuts: \_\_\_\_\_\_ mL

Volume of one ¼ inch nut: \_\_\_\_\_\_ mL

1. Place 10 of the ½ inch nuts is the large graduated cylinder.
2. Add 10 mL of water at a time until the nuts are completely covered.

Total Water Added: \_\_\_\_\_\_\_ mL

Total Volume: \_\_\_\_\_\_ mL

Volume of 10 of the ½ inch nuts: \_\_\_\_\_\_ mL

Volume of one ½ inch nut: \_\_\_\_\_\_ mL

1. What is the ratio of volume of ¼ inch nut to volume of ½ inch nut?

\_\_\_\_\_\_\_\_\_ : \_\_\_\_\_\_\_\_\_

1. What do you think that ratio of masses should be in the nuts are made of the same material? Why? Test your hypothesis.

Mass of 10 of the ¼ inch nuts: \_\_\_\_\_\_\_\_ g

Mass of 10 of the ½ inch nuts: \_\_\_\_\_\_\_\_ g