

The term "volume" refers to how much something can hold. The term "capacity" refers to how much **liquid** something can hold. There are different units that can be used to measure this such as gallons, quarts, and cups, but in third grade the focus is on liters (l).



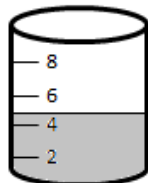
1 liter ≈ 4 cups



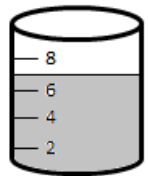
A common example of a liter is the larger bottle of soda that is still for one person. A liter is about the same thing as a quart which means a liter is about 4 cups (the kind you measure with when cooking).

Write how many liters are in each container below.

1.



2.



Circle which object would be more likely to be containing liters. Remember liters are used to measure how much liquid something can hold or be filled up with.

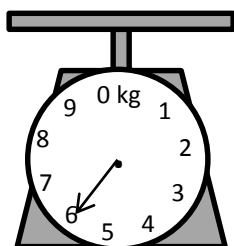
- | | |
|-----------------------------|----------------------------|
| 3. elephant or watering can | 4. book or pool |
| 5. pen or pitcher | 6. milk carton or computer |
| 7. glass or rubber band | 8. cell phone or bottle |
| 9. pot or candle | 10. chair or pail |

Tuesday

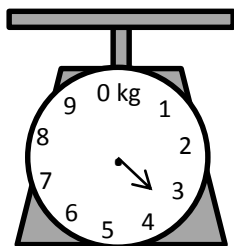
The term "mass" refers to how much matter someone or something has inside. As long as you are on Earth, mass is the same thing as **weight**, so basically it is how much someone or something weighs. There are different units that can be used to measure the mass of something such as pounds, but in third grade, the focus is on grams (g) and kilograms (kg).

Write the mass shown on each scale below.

1.



2.



A paper clip weighs about 1 gram.
1 gram does not weigh much at all!



A liter soda bottle weighs about 1 kilogram which is about 2 pounds.

For each object below, circle whether grams or kilograms would be more appropriate to measure the mass of that object. **If the object weighs more than 1 kilogram, then you need to use kilograms. If the object weighs less than 1 kilogram, then you need to use grams.**

- | | |
|-----------------------------------|---------------------------|
| 3. paper: grams or kilograms | 4. chair: g or kg |
| 5. little boy: grams or kilograms | 6. scarf: g or kg |
| 7. car: grams or kilograms | 8. full book bag: g or kg |
| 9. crayon: grams or kilograms | 10. jelly bean: g or kg |

Wednesday

Name: _____

Answer each question below. Mark you answer by circling the correct unit.

1. What unit would be most appropriate to measure the weight of a desk?

liters grams kilograms

4. Which measurement would be more appropriate for the mass of a watch?

100 grams or 5 kilograms

2. What unit would be most appropriate to measure how much water a bathtub can hold?

liters grams kilograms

5. Which measurement would be more appropriate for the mass of a kitchen table?

500 grams or 100 kilograms

3. What unit would be most appropriate to measure the capacity of a metal box?

liters grams kilograms

6. Which measurement would be more appropriate for the mass of a cell phone?

80 grams or 80 kilograms

Thursday

Draw a line to match each picture on the left with the most reasonable mass on the right.



60 kg



40 grams



2 kg



4 grams



2,500 kg

Solve each word problem below.

1. Trevon filled a 4-liter punch bowl seven times during a party. How many liters did he pour into the bowl total?

2. Ramon weighs 38 kilograms, and Paul weighs 52 kilograms. Tanya weighs 47 kilograms, and Melissa weighs 29 kilograms. How much more do the boys weigh together than the girls?

3. If a 12-pack of pencils weighs 84 grams, how much would each pencil weigh?