Converting between measurements – Mass and Capacity

The standard unit of mass is the kilogram (kg)

1 kilogram is the same as 1000grams. (g)

Therefore 1 gram is 1/1000th of 1 kilogram.

Look around the kitchen. There will be lots of things with the mass written on them.

A standard bag of sugar is 1kg. A bag of flour might be 1.5kg. A block of butter is usually 250g or ¼ kg.

So, 1kg is the same as 1000g. A gram is therefore a very small mass. (There is a smaller mass the milligram (mg) which is 1/1000th of a gram!)

Converting – start easy and then proceed

1. 1kg = 1000g so 3kg = …………………g
2. 7kg = ……………………….g
3. ½ kg or 0.5kg = ………………….g
4. ¼ kg or 0.25kg = ……………….g
5. 1.5kg = ………………..g
6. 0.7kg = …………………g (Must be less than 1000g!)
7. 0.3kg = …………………g
8. 0.45kg ………………..g
9. 2.8kg = ……………….g
10. 4.125kg = …………….g
11. 0.003kg = ……………… (Look at the value of the 3)

ANSWERS

1. 3000g
2. 7000g
3. 500g
4. 250g
5. 1500g
6. 700g
7. 300g
8. 450g
9. 2800g
10. 4125g
11. 3g

Some of you might have realised that you **multiply** the mass in kg by **1000** to get the mass in g.

Try the other way now.

1. 1000g = 1kg so 6000g = …………………kg
2. 4000g = …………………..kg
3. 500g = …………………….kg (Answer is less than 1)
4. 250g = ………………………kg (Answer is less than 1)
5. 600g = …………………….kg (Answer is less than 1)
6. 1800g = …………………..kg (A decimal answer)
7. 3400g = ……………………kg (A decimal answer)
8. 6100g = ………………….. kg (A decimal answer)
9. 470g = ……………………..kg (Answer is less than 1)

ANSWERS

1. 6kg
2. 4kg
3. 0.5kg or o.50 kg or 0.5000kg or ½ kg
4. 0.25kg or 0.250kg or ¼ kg
5. 0.6 or 0.60 or 0.600kg
6. 1.8 kg or 1.80kg or 1.800kg
7. 3.4 kg etc
8. 6.1kg etc
9. 0.470kg or 0.47kg

Some of you might have realised that you **divide** the mass in g by **1000** to get the mass in kg.