

1. Write the following measurement units in full:

g _____

kg _____

t _____

2. How many grams in 1 kilogram?

3. What would be an appropriate unit of measurement for the mass of:

A pencil _____

A rhinoceros _____

A large tub or margarine _____

A pumpkin _____

4. Why do we need standard units for measurement, like the kilogram?

5. Convert between these units of measurement:

20 kilograms to grams

2 tonnes to kilograms

4500 grams to kilograms

5000 kilograms to tonnes

500 grams to kilograms

Half a tonne to kilograms

Extra: Can you work out how many grams in a tonne?

Answers

1. Grams, kilograms, tonnes
2. $1000\text{g} = 1\text{ kg}$
3. Appropriate units
A pencil – grams.

A rhinoceros – tonnes, although a very small rhino may weigh less than 1 tonne.

A large tub or margarine – kilograms, although grams might be accepted.

A pumpkin – kilograms.

4. We need standard units so everyone knows exactly what measurement we are talking about. It makes for accuracy, consistency and certainty. In some fields accurate measurements are important, such as materials in building and manufacturing, mass of objects or people being transported, when products are sold by weight, and in cooking.
5. Conversions

20 kilograms to grams = 20000g

2 tonnes to kilograms = 2000kg

4500 grams to kilograms = 4.5kg

5000 kilograms to tonnes = 5t

500 grams to kilograms = 0.5kg

Half a tonne to kilograms = 500kg

Extra: 1 000 000 (one million).