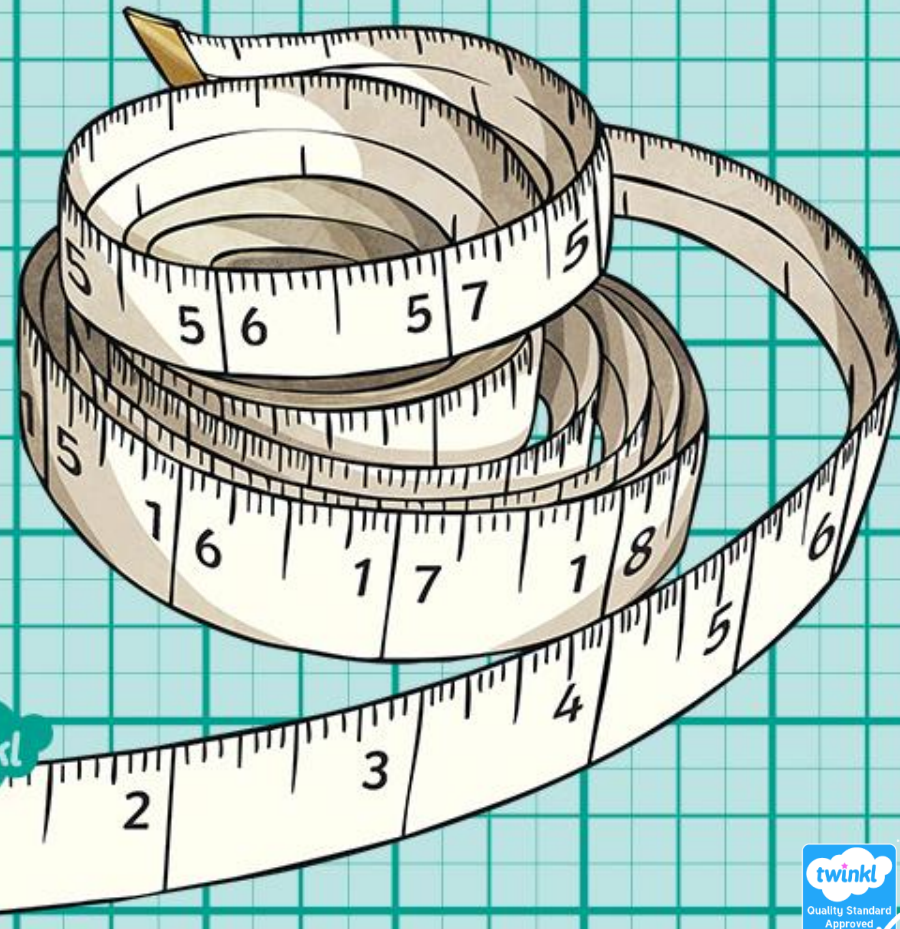
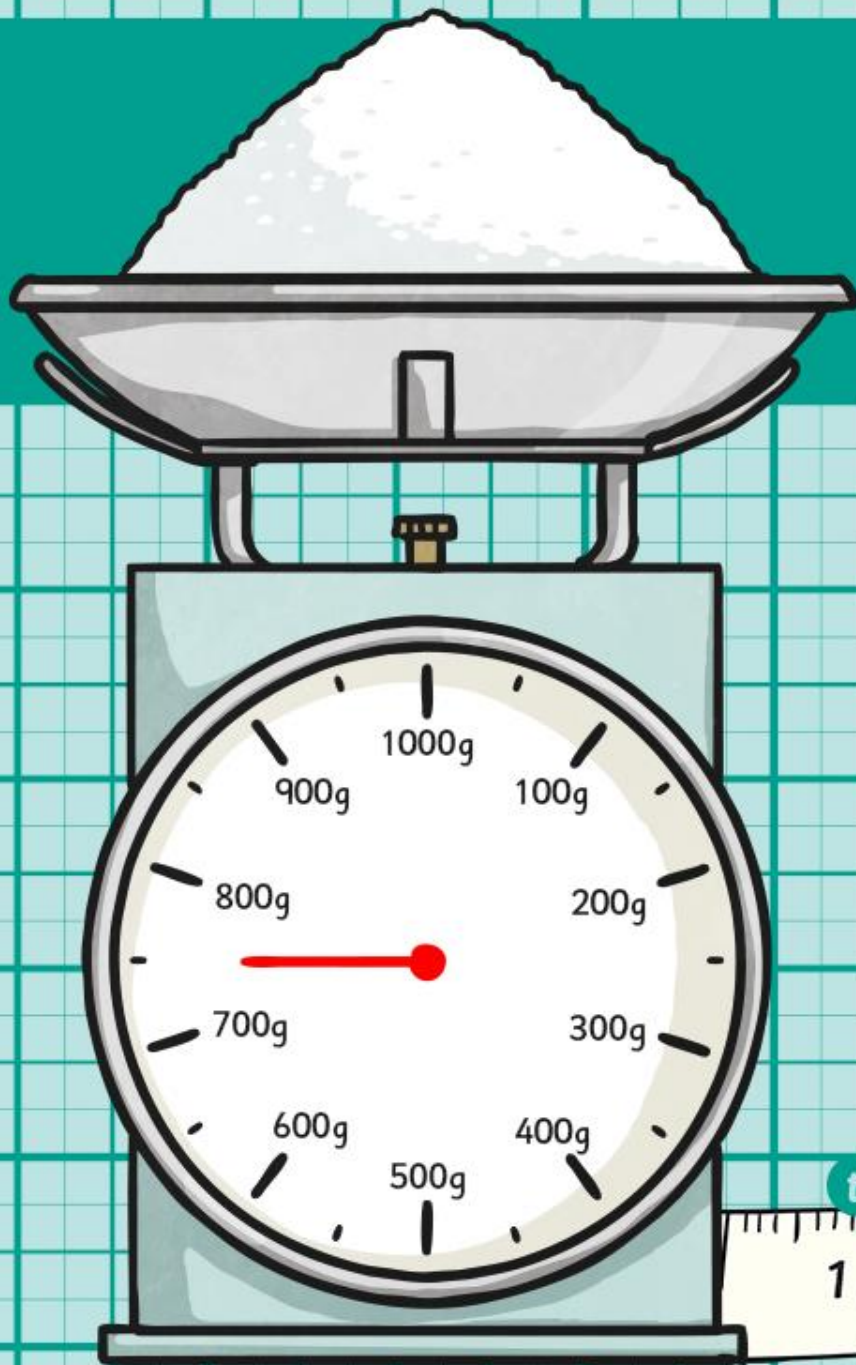


Conversion Graphs



twinkl

What Is a Conversion Graph?

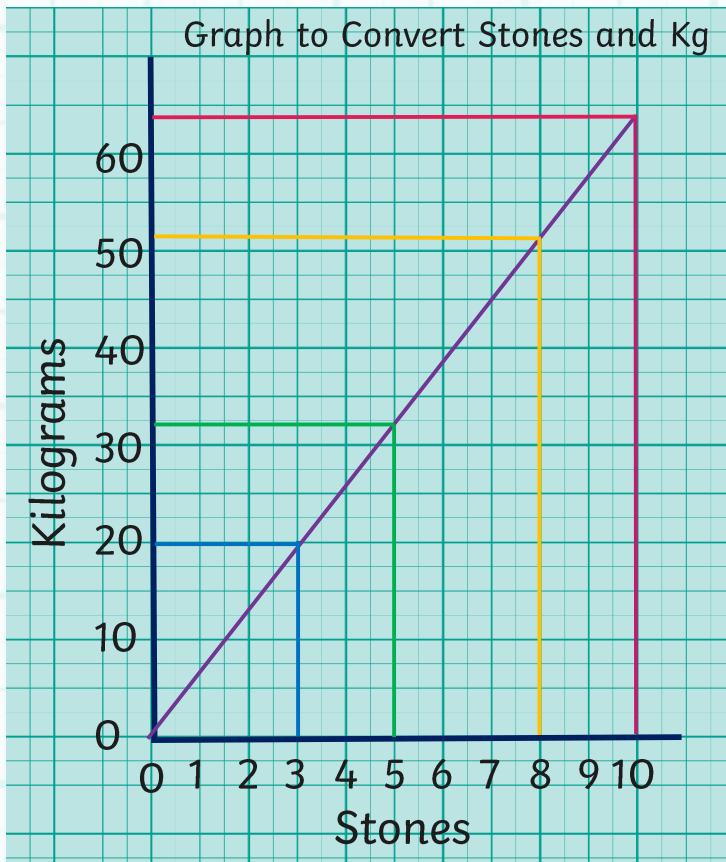
A **conversion** graph shows the relationship between two different ways of measuring the same thing.

Why Do We Need Conversion Graphs?

Conversion graphs are a quick and easy way to change from one unit of measure to another without having to do any calculations. All you have to do is read from the line on the graph.

We still need to convert between measurements in this day and age because, in the UK, we regularly use a mix of imperial and metric measurements such as pints, cm, miles, km, stones and grams. Also, the rest of the world use a range of measurements so we need to be able to convert between these.

Reading the Graphs



Reading from a conversion graph is simple if you look carefully. Make sure you have identified which axis is which.

From the amount you are given, follow this to the line and then find where that line sits on the other axis.

Use the graph to answer these:

8 stones = ?

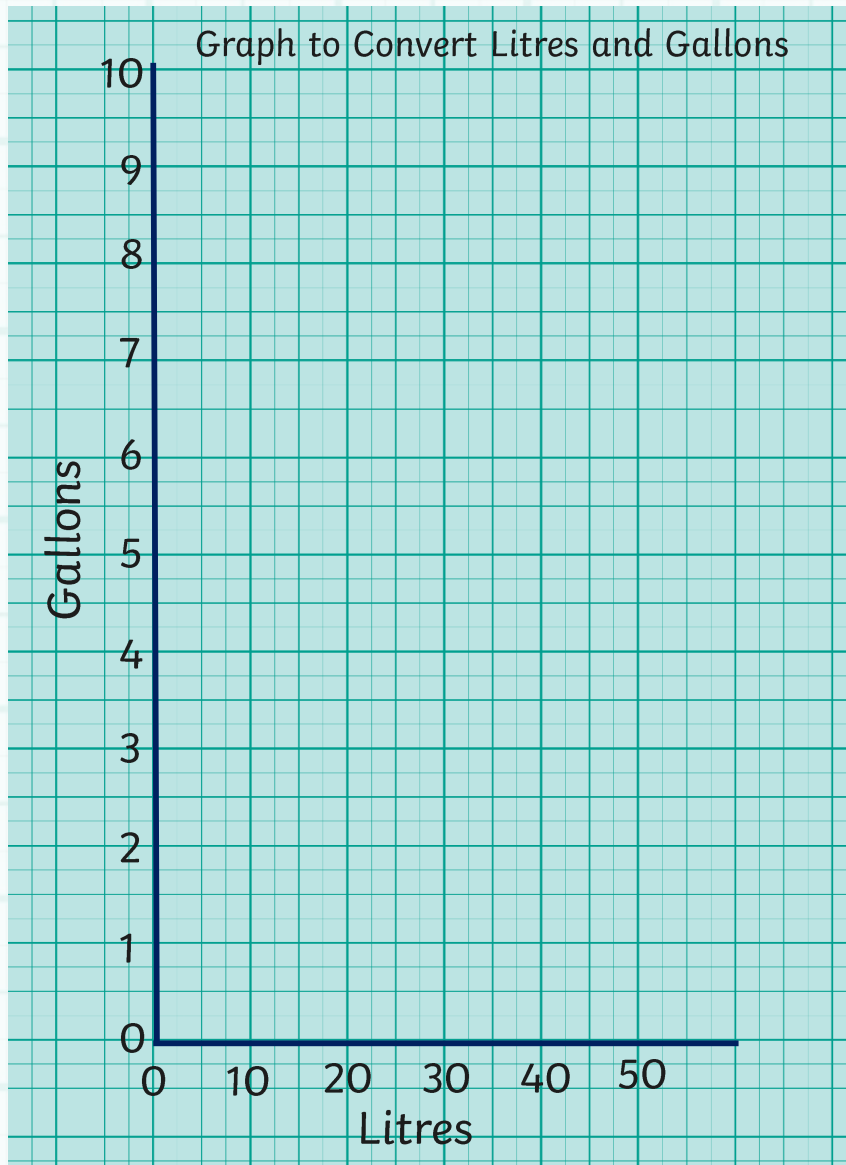
20kg = ?

5 stones = ?

Drawing the Graphs

To draw your own graph, simply follow these instructions:

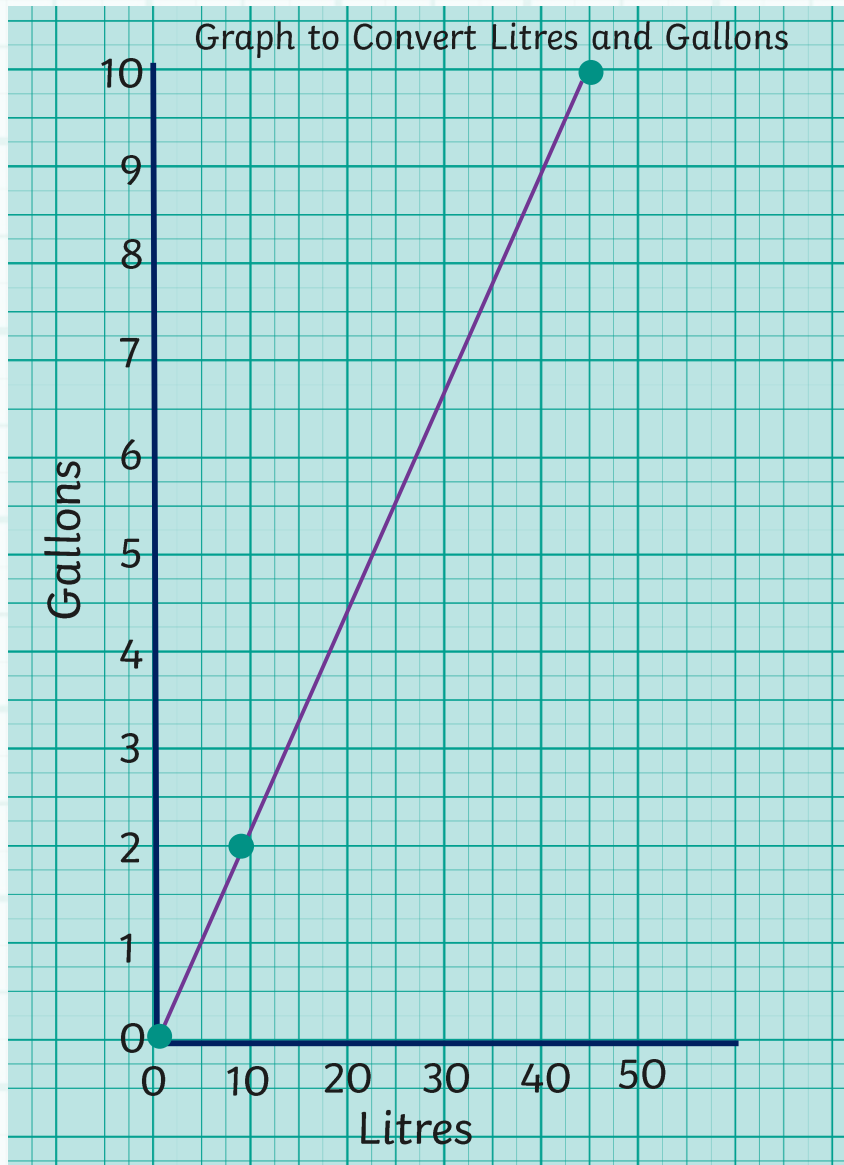
1. Draw two axes and label them with the two units you need to use. Don't forget the title for your graph.
2. Number each axis making sure that all numbers are on thick blue lines (not in the gaps) and the spaces between numbers are consistent along each axis.



Drawing the Graphs

3. Plot 3 points that you know on the graph.
4. Join the 3 points with a ruler. They should form one straight line.

Practice It



Conversion Graphs 1

Miles and Kilometres

Use the blank graph below or draw your own on graph paper to create a conversion graph to convert distances between miles and kilometres.

1. First of all, plot the following points on the graph:
 - a. $8\text{km} = 5\text{ miles}$
 - b. $20\text{ miles} = 32\text{km}$
 - c. $16\text{km} = 10\text{ miles}$
 - d. $0\text{ miles} = 0\text{km}$
2. Now, using a ruler, join up the points with a straight line.
3. Now use the line on your graph to finish the following conversions:
 - a. $15\text{ miles} =$
 - b. $30\text{km} =$
 - c. $35\text{ miles} =$
 - d. $49\text{km} =$

Conversion Graphs 1

Miles and Kilometres

