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## What Is a Conversion Graph?

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

The relationship is shown by a line on the graph that can then be used to read off the matching amounts. The same volume of milk could be measured as 1 pint or 568 ml .

How many ways can you think of measuring Distance/Length and Weight?

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## 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 = ?

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20 \mathrm{~kg}=?
$$

5 stones $=$ ?

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\text { Try It } \quad \text { Try It Answers }
$$




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


## Conversion Graphs 2 Centimetres and Inches

Use the blank graph below or draw your own on graph paper to create a conversion graph to convert lengths between centimetres and inches.

1. First of all, plot the following points on the graph:
a. 4 inches $=10 \mathrm{~cm}$
b. $51 \mathrm{~cm}=20$ inches
c. 10 inches $=25 \mathrm{~cm}$
d. $0 \mathrm{~cm}=0$ inches
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. 16 inches $=$
b. $60 \mathrm{~cm}=$
c. 30 inches $=$
d. $100 \mathrm{~cm}=$


## Conversion Graphs 3 Celsius and Fahrenheit

Use the blank graph below or draw your own on graph paper to create a conversion graph to convert temperatures between Celsius and Fahrenheit.

1. First of all, plot the following points on the graph:
a. $10^{\circ} \mathrm{C}=50^{\circ} \mathrm{F}$
b. $32^{\circ} \mathrm{F}=0^{\circ} \mathrm{C}$
c. $5^{\circ} \mathrm{C}=41^{\circ} \mathrm{F}$
d. $68^{\circ} \mathrm{F}=20^{\circ} \mathrm{C}$
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. $60^{\circ} \mathrm{F}=$
b. $25^{\circ} \mathrm{C}=$
c. $100^{\circ} \mathrm{F}=$
d. $32^{\circ} \mathrm{C}=$


## Glossary

Conversion Changing from one thing to another
Furlongs A measurement used in horse racing. There are 8 furlongs in mile.

Hands
Horses' heights are measured in hands. 1 hand is 10.16 cm .

Light Years
The distance (not time) that light travels in 1 year. It is about 5.88 trillion miles.


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