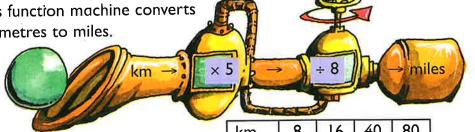


## Using conversion graphs

Begin to plot and interpret the graphs of simple linear functions arising from real-life situations

This function machine converts kilometres to miles.



- a copy of RCM 20
- a ruler

- Use the function machine to construct a table of values.
- 40 80 km miles
- b Use your table to plot points on the squared grid on RCM 20: Squared grid and graph paper. Draw a conversion graph. Give your graph a title.

c Use your graph to convert these distances. Copy and complete the table.

5 5						
From	То	То	То	То	To	To
Glasgow	Dundee	Edinburgh	Gourock	Largs	Oban	Perth
miles	80	45		30	90	55
km			40			

2 This function machine converts °C to °F.

 Use the function machine to construct a table of values. Round up to the nearest whole degree.

°C	0	5	16	28	35
°F				r	

- b Plot the points on the graph paper. Draw a conversion graph. Give your graph a title.
- Use your graph to convert these temperatures from °C to °F.

## World Temperatures for 31 May

25°C	Dubai	39°C	
11°C	Luxor	41°C	
27°C	Paris	19°C	
22°C	Bangkok	33°C	
	II°C 27°C	11°C Luxor 27°C Paris	

## 4.5 litres ≈ 8 pints

- Decide how many points you need to plot to draw an accurate graph to convert up to 50 litres to pints.
- b Choose suitable scales for the axes.
- c Draw the graph on graph paper.
- d Label the axes and give the graph a title.

You may need to construct a table of values.