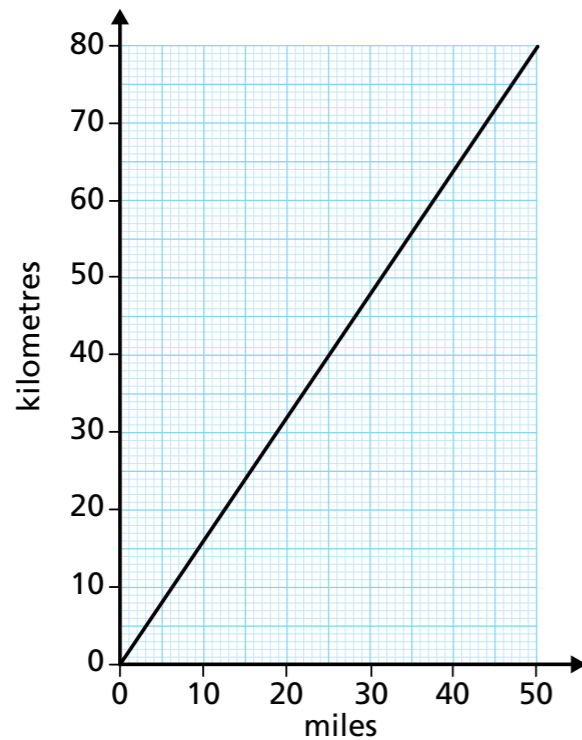


Explore conversion graphs

1 This is a conversion graph between miles and kilometres.



a) Use the graph to make approximate conversions.

10 miles = kilometres

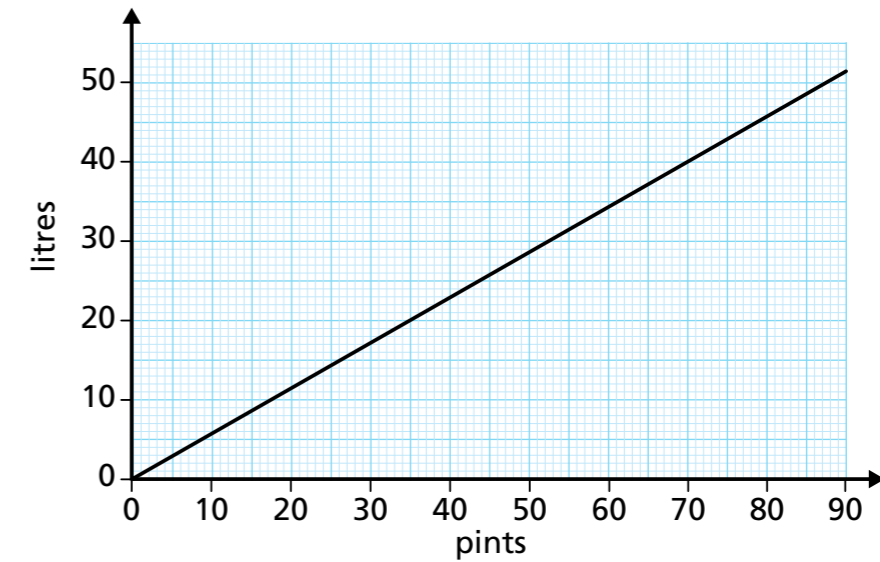
40 miles = kilometres

40 kilometres = miles

80 kilometres = miles

b) Use your last answer to make an approximate conversion of 800 kilometres to miles.

2 This is a conversion graph between pints and litres.



a) Use the graph to make approximate conversions.

40 pints = litres

40 litres = pints

20 litres = pints

35 pints = litres

b) Jack and Dora want to convert 100 pints to litres. Complete their methods.

Jack's method

100 pints = 70 pints + 30 pints

70 pints = litres

30 pints = litres

So 100 pints = litres

Dora's method

100 pints = 2 × 50 pints

50 pints = litres

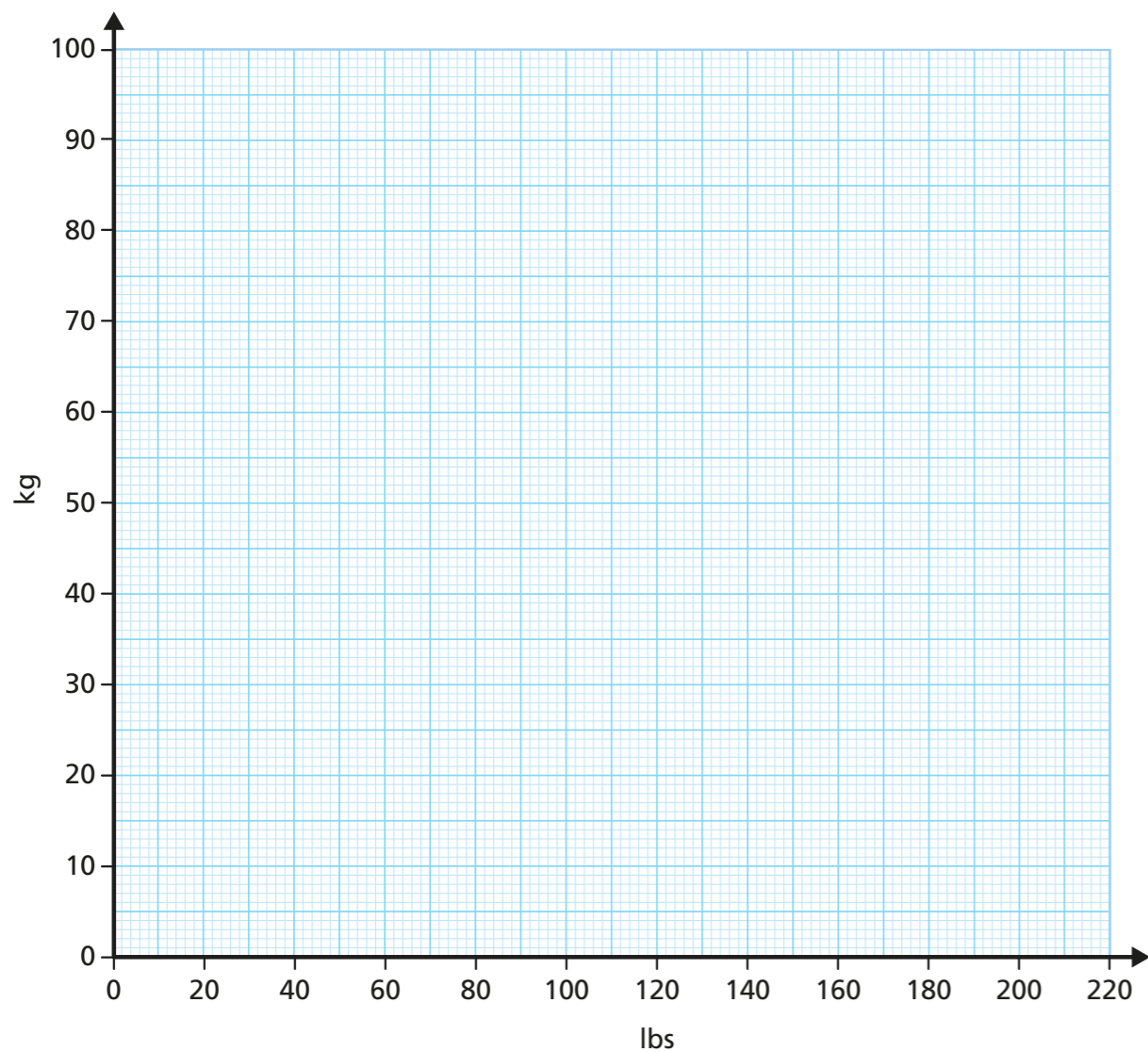
So 100 pints = litres

c) Choose one of these methods to convert 100 litres into pints.

100 litres = pints



- 3 20 kg is approximately equal to 44 lbs.
Use this information to draw a conversion graph.



- a) Use your graph to complete the approximate conversions.

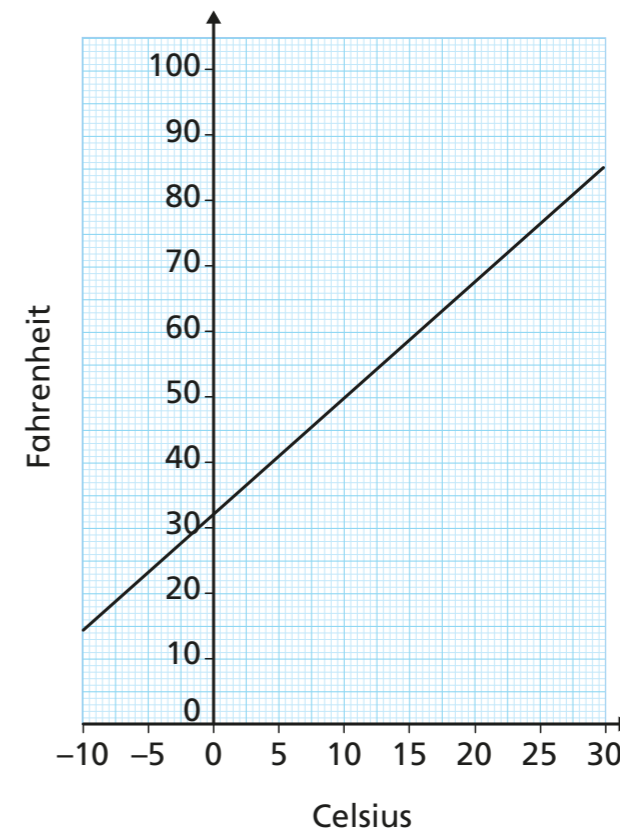
$$75 \text{ lbs} = \boxed{} \text{ kg}$$

$$82 \text{ kg} = \boxed{} \text{ lbs}$$

- b) Use the graph to find your own conversions.



- 4 The graph shows a conversion between Celsius and Fahrenheit.



The table shows the temperature at midnight and midday in Oslo and New York.

Oslo		New York	
Midnight	Midday	Midnight	Midday
-5°C	41°F	32°F	8°C

In which city does the temperature change the most between midnight and midday? Show your workings.

The temperature changes most between midnight and midday in

_____.