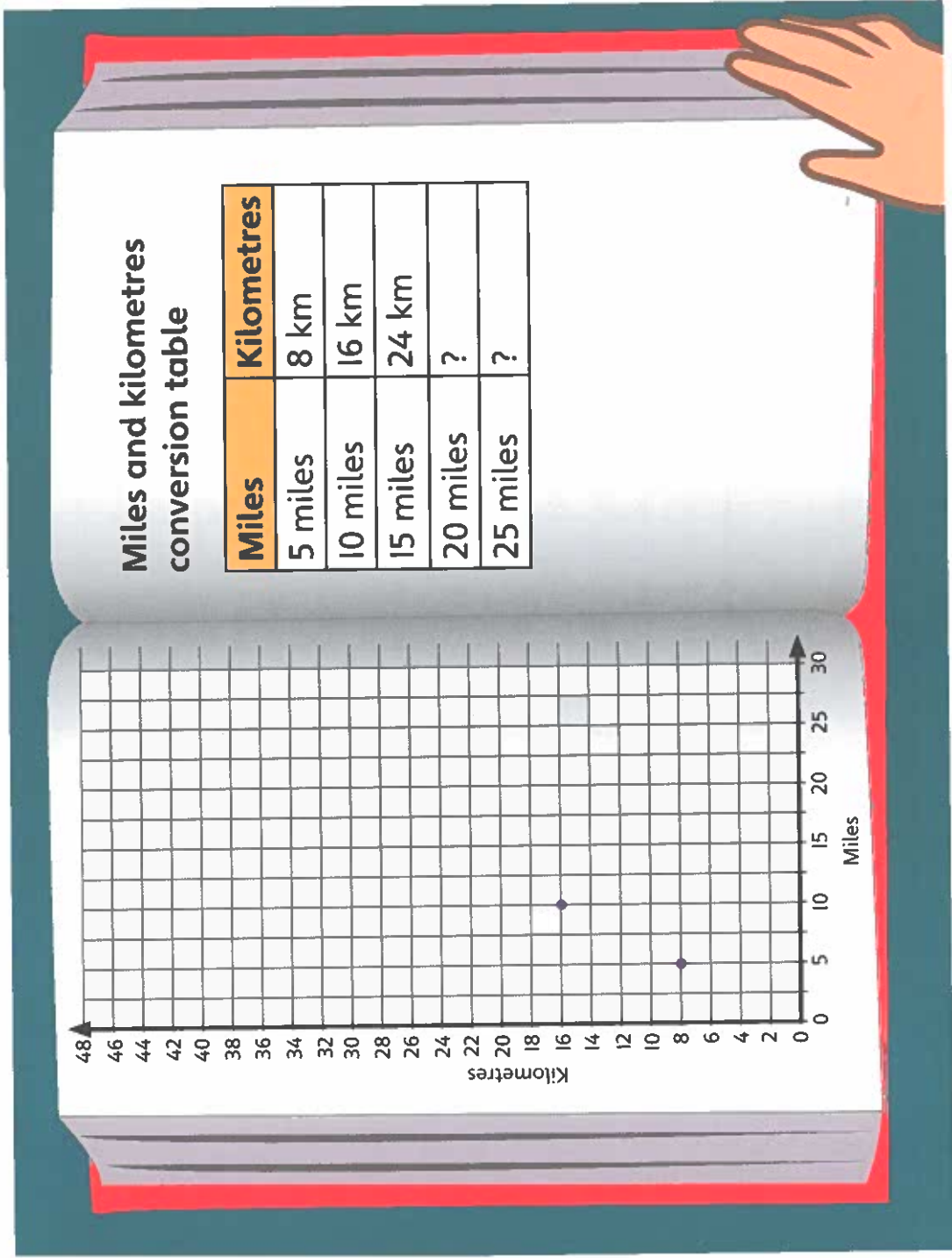


Constructing line graphs

Discover



- 1 a) Show where the next points would go on the graph and complete the missing values in the table.
- b) How many miles convert to 44 km?

Share

- a) The next point on the graph shows that 15 miles convert to 24 km.

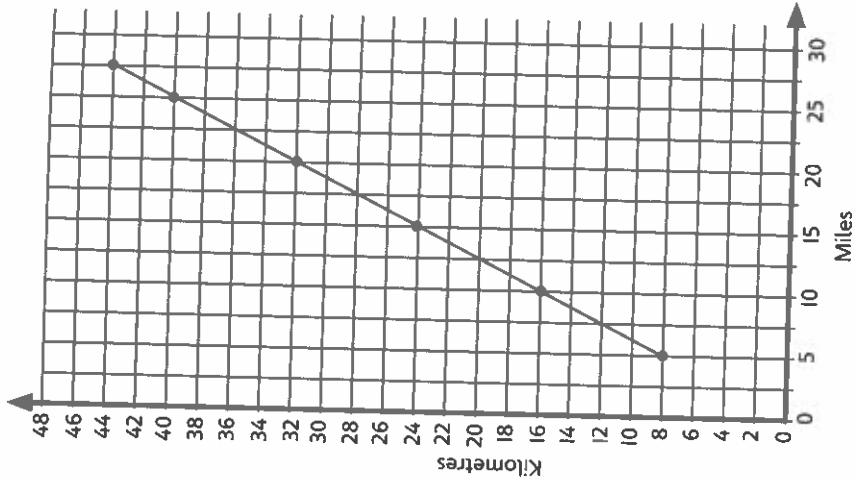
I noticed the points lie in a straight line.

Miles	Kilometres
5 miles	8 km
10 miles	16 km
15 miles	24 km
20 miles	32 km
25 miles	40 km

The graph converts miles and kilometres. It is a straight line because there are 5 miles for every 8 km.

- b) 44 km is halfway between 40 and 48 km.
- 27.5 miles is halfway between 25 and 30 miles.
- So 27.5 miles convert to 44 km.

Miles	Kilometres
25 miles	40 km
27.5 miles	44 km
30 miles	48 km



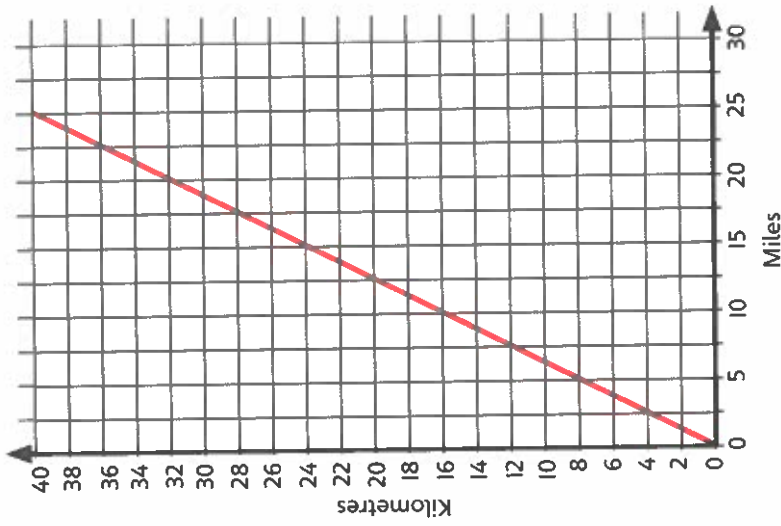
Think together

1 This graph shows the conversion of miles and kilometres. Use the information on the graph to complete the conversions.

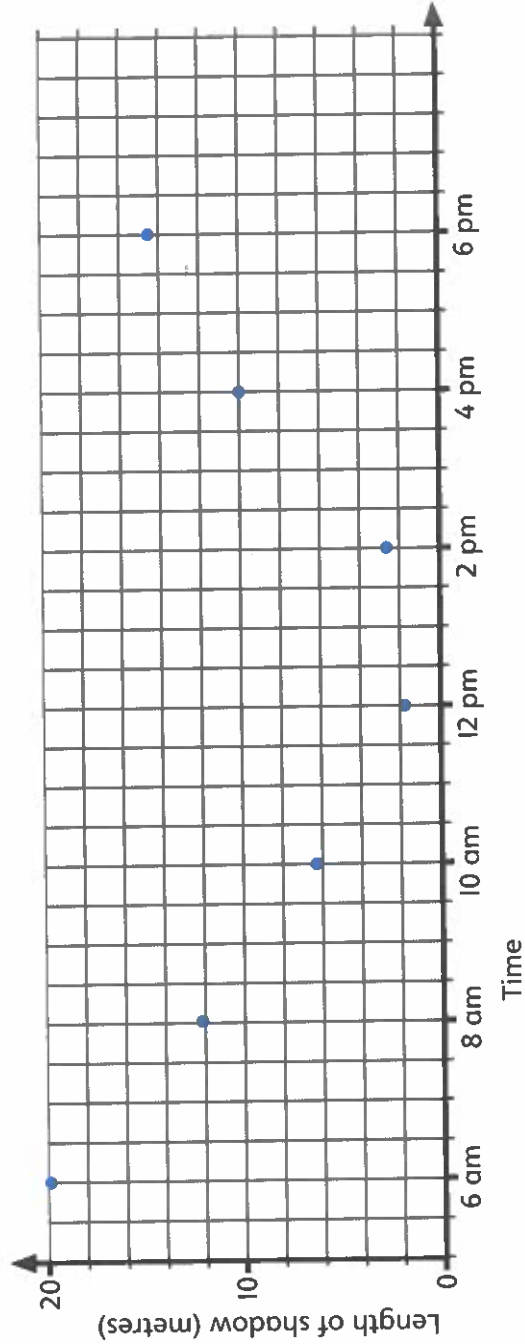
10 miles is equivalent to kilometres.

20 kilometres is equivalent to miles.

There are metres in one mile.



2 This graph shows the length of a shadow of a tree at different times of the day.



When was the shadow 10 m long?

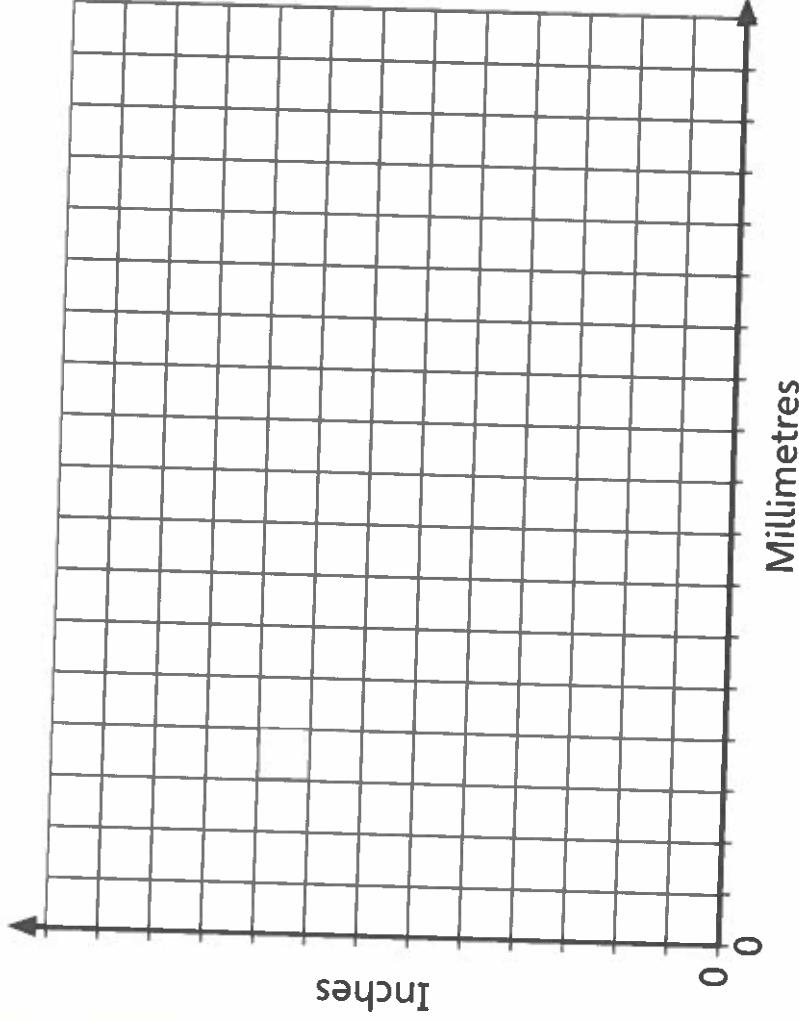
Use this graph to predict the height of the shadow at 8 pm.

CHALLENGE

3 Use the figures in the table to draw a conversion line graph for inches to millimetres.

Inches and millimetres conversion table

Inches	10	20	30	
Millimetres	254	508	762	



I will first decide what scales to use for my axes.



Use the graph to find the following approximate conversions.

25 inches = mm 1 m = inches

800 mm = inches 6 ft = m

15 inches = cm

There are 12 inches in 1 foot.

