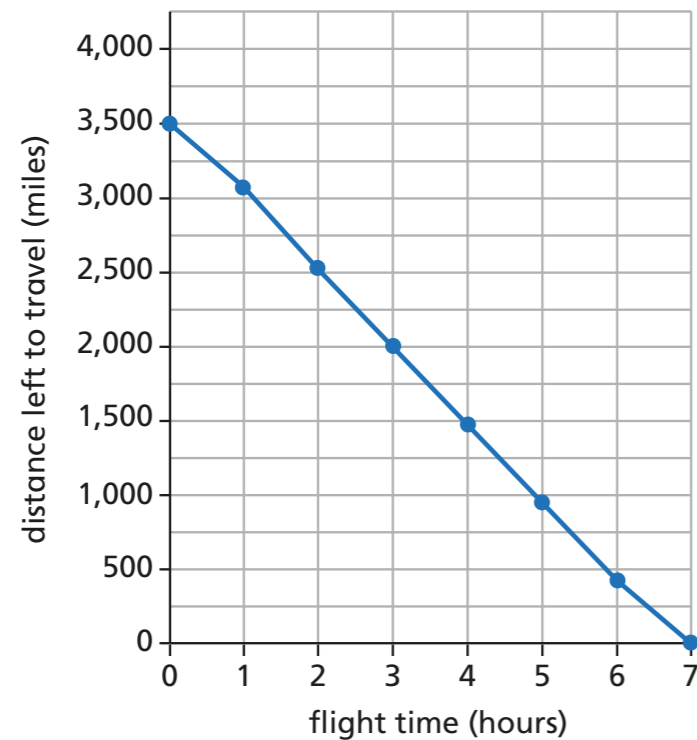


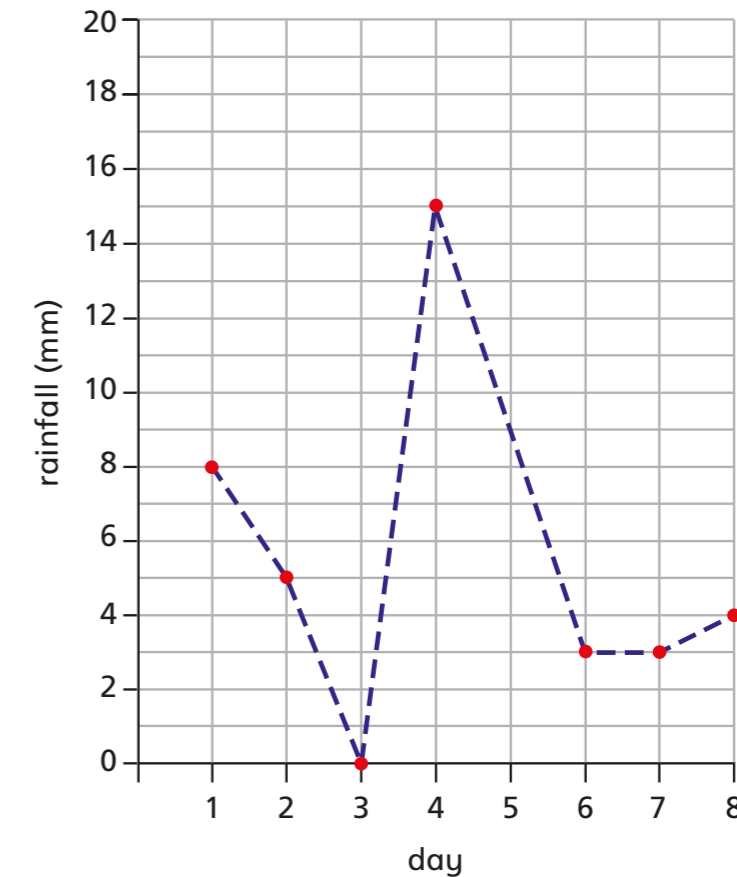
# Use line graphs to solve problems

- 1 This graph shows how many miles an aeroplane has left to travel each hour on its journey from London to New York.



- a) How many hours is the flight? 7
- b) How many miles is the journey from London to New York? 3,500
- c) After 4 hours, how many more miles are left to travel? 1,500
- d) How long does it take to fly the final 1,000 miles? 2 hours
- e) How many miles does the plane travel between 2 hours and 4 hours into the flight? 1,000
- f) Estimate how far the plane has travelled after 3 hours and 30 minutes. 1,750 miles

- 2 The graph shows the rainfall in the first 8 days in October.



- a) How many millimetres of rain fell on the 7th October? 3
- b) It rained every day in the first 8 days in October.

Is this statement correct? NO

Explain your answer.

It didn't rain on the 3rd

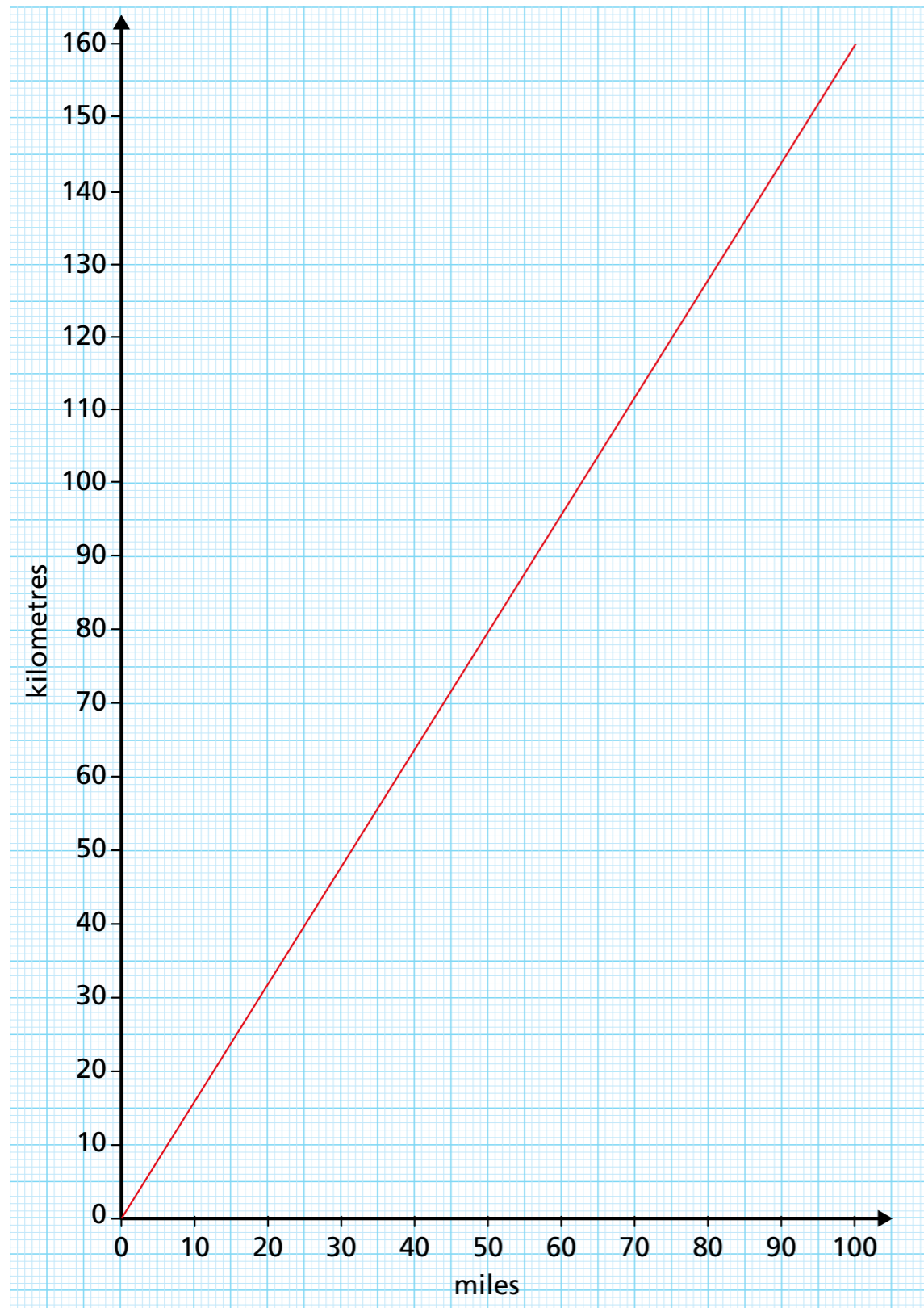
- c) The record amount of rainfall for October is 2.5 cm

Has a new record been set? Yes

Explain your answer.

2.5cm = 25mm and 38mm fell in the first 8 days.

3 This graph shows the conversion between miles and kilometres.



a) How many kilometres are there in 50 miles?

80

b) How many miles are there in 130 km?

81

c) Explain to a partner how you worked out the answers to part a) and b).



d) Eva cycles 60 miles.

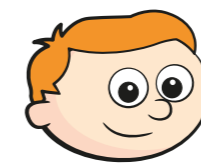
Dexter cycles 80 km.

Who cycles the furthest? Eva

How much further does the person cycle?

10 miles

e) Ron wants to convert 800 km into miles.



I can't do it because my graph doesn't go high enough.

Ron is incorrect. Explain why.

You can convert 80km then multiply by 10

Complete the conversion.

Show your working.

800 km = 500 miles

f) A high-speed train can travel up to 400 km in an hour.

How many miles can it travel in an hour?

250

