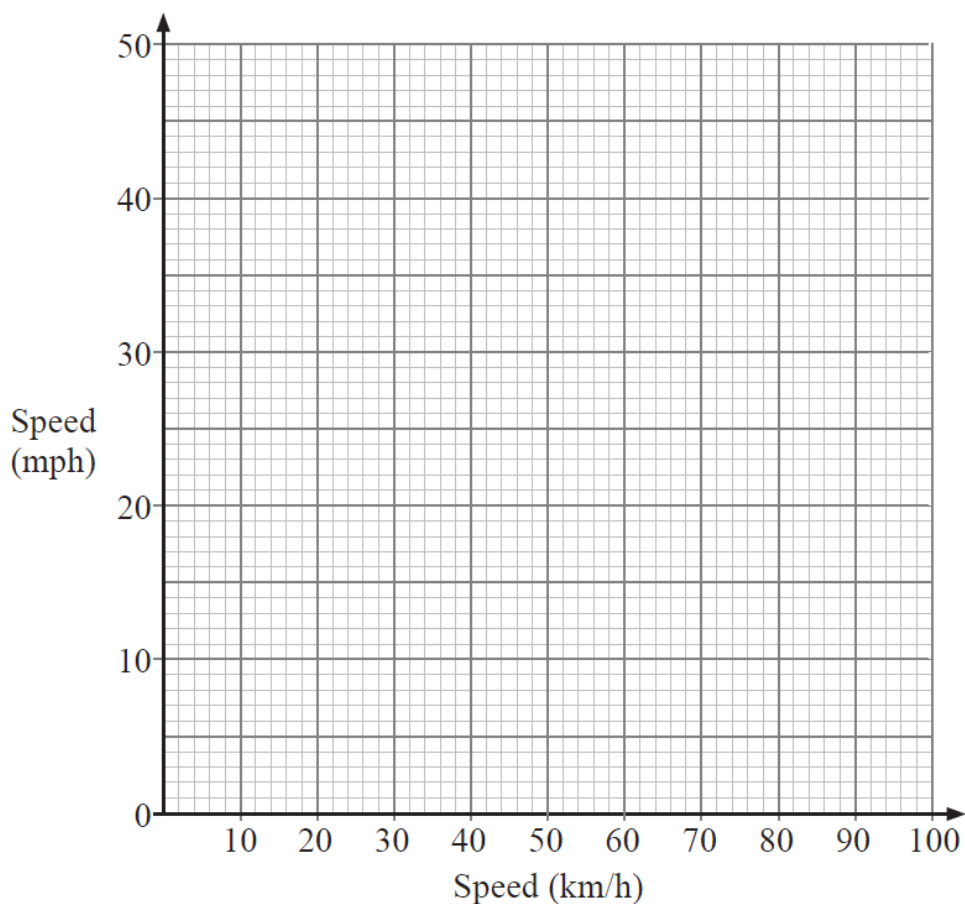


# M6 = 22 days to go!

5 Speed can be measured in kilometres per hour (km/h) or miles per hour (mph).

(a) Use the values in the table to draw a conversion graph.

Speed (km/h)	0	40	80
Speed (mph)	0	25	50



[2]

(b) Jonah is travelling at 50 km/h.

Is he breaking the 30 mph speed limit?

You **must use** your graph to help explain your answer clearly.

Answer \_\_\_\_\_ because \_\_\_\_\_

\_\_\_\_\_ [1]

**13** Solve

$$8x < 6x + 7$$

**14 (a)** Write the binary number 10101 as a decimal number.

Answer \_\_\_\_\_ [1]

**(b)** Write the decimal number 26 as a binary number.

Answer \_\_\_\_\_ [1]