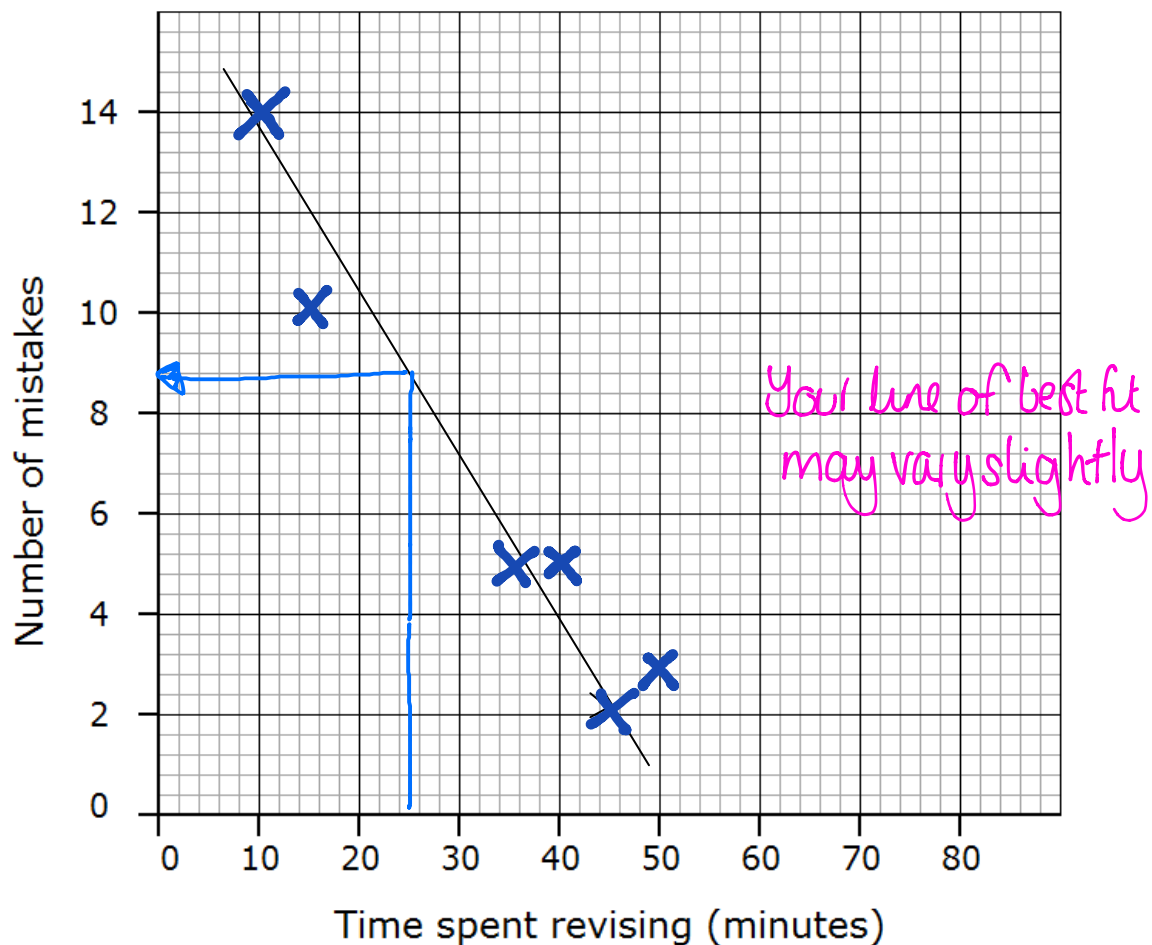


Six pupils took a spelling test.

Time spent revising (minutes)	10	15	35	40	45	50
Number of mistakes made in the test	14	11	5	5	2	3

Plot the data on the scatter diagram.



(2)

A pupil revised for 25 minutes. Use a line of best fit to estimate the number of mistakes he made.

9 mistakes

(2)

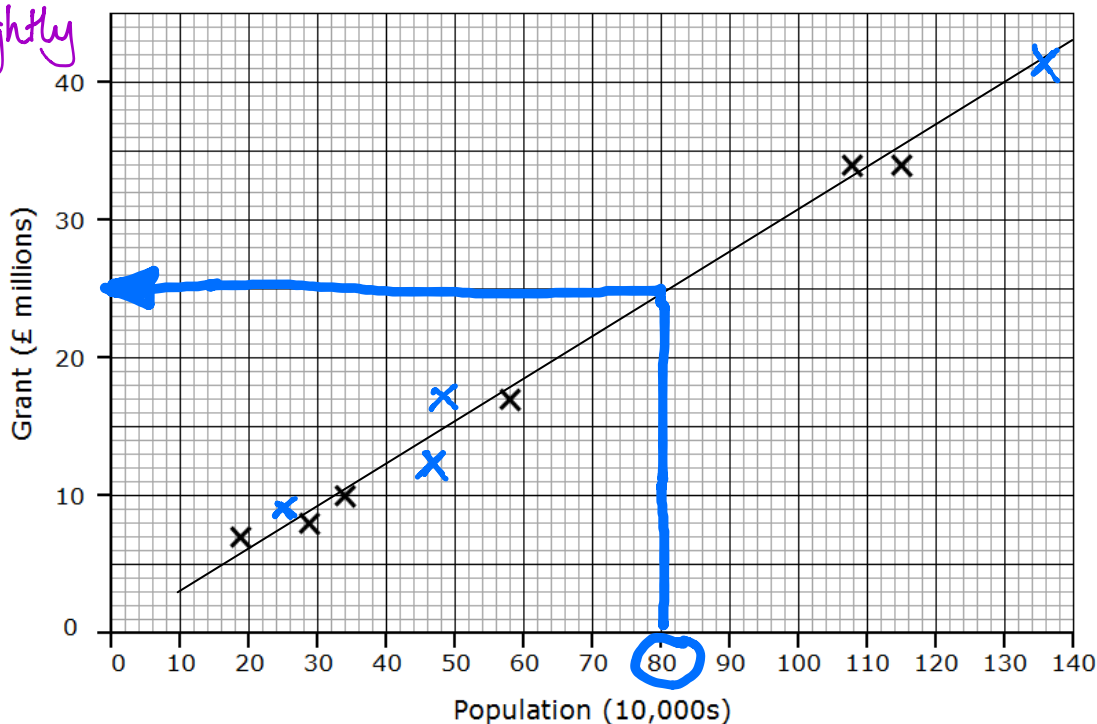
(a range of answers would be acceptable here based on your line of best fit)

The table shows the population (in tens of thousands) of 10 English counties and the grant (in millions of pounds) they each received to prevent flooding.

Population (10,000s)	29	58	108	34	115	19	136	25	47	49
Grant (£ millions)	8	17	34	10	34	7	41	9	12	17

The first six points have been plotted on this scatter diagram.

Don't forget your line of best fit may vary slightly to mine...



a) Complete the scatter diagram.

(2)

b) Describe the relationship shown in the scatter diagram.

positive correlation

(1)

c) Draw a line of best fit on your scatter diagram.

✓ you may vary slightly

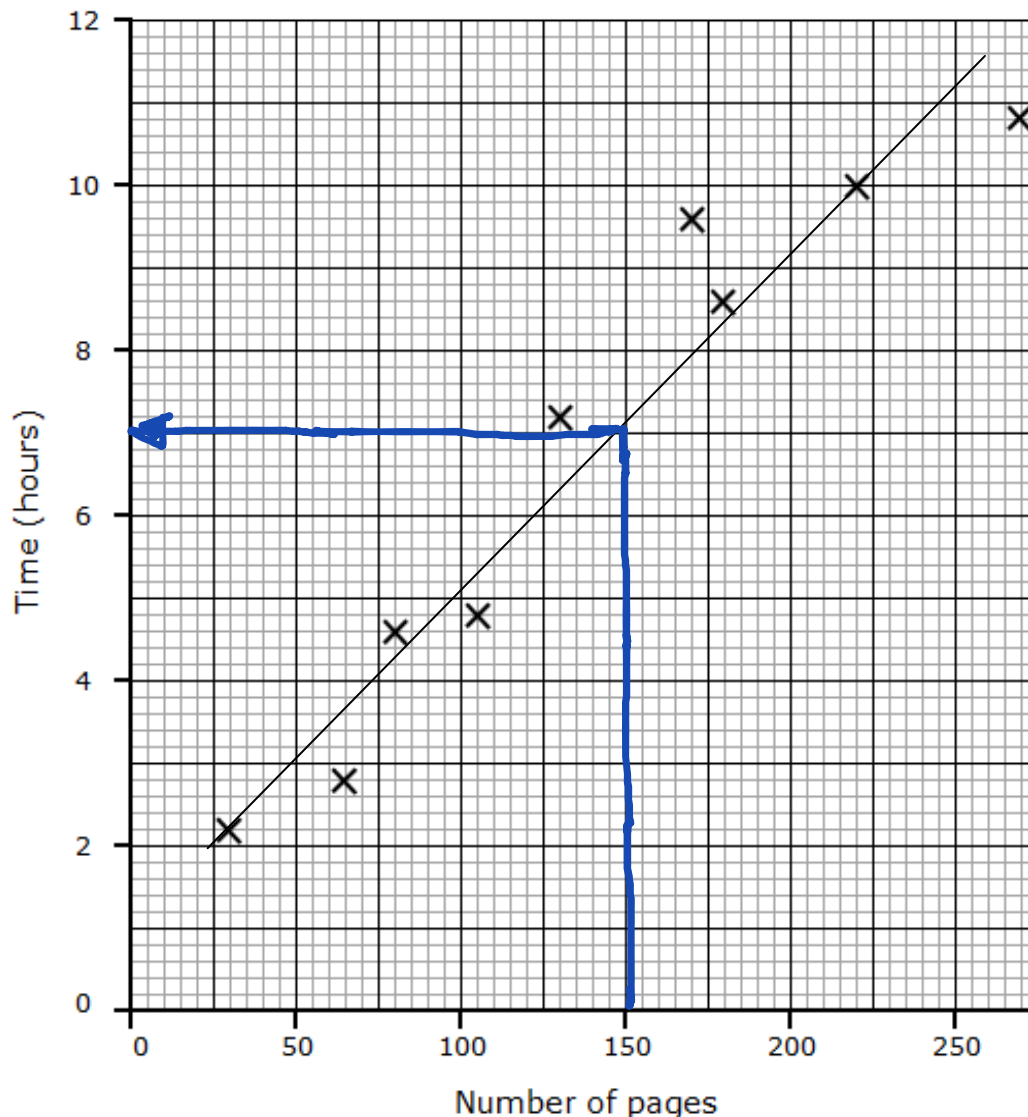
(1)

d) Another country has a population of 80,000. Use your line of best fit to estimate the grant for this country.

£25 Million

(1)

Harriet reads eight books. For each book she records the number of pages and the time she takes to read it. The scatter graph shows information about her results.



a) Describe the relationship between the number of pages in a book and the time Harriet takes to read it.

positive correlation (1)

b) Harriet reads another book. The book has 150 pages. Estimate the time it takes Harriet to read it.

You may get a slightly different answer based on your line of best fit

7 minutes hours
oops!! check your answer makes sense!

(2)

