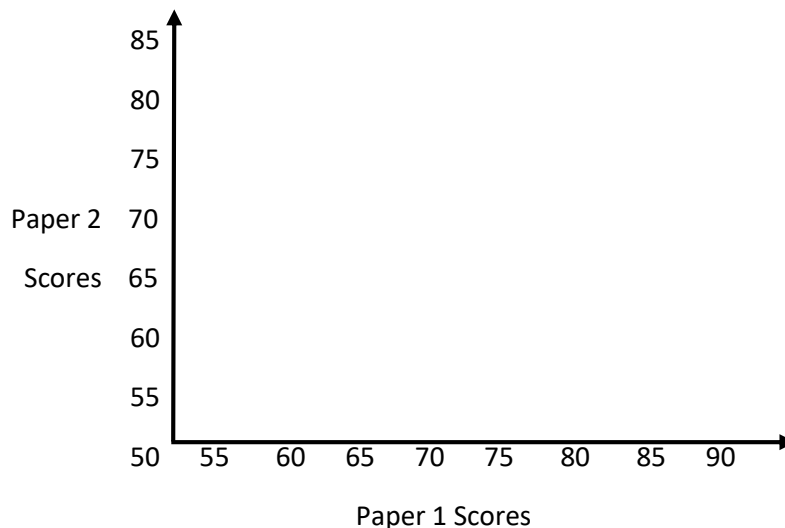


National 5 Final Revision	Applications
Statistical Skills	Working with Linear Models
Average Allocation	Marks

1. The table below shows the scores in a Maths exam by some pupils. Paper 1 and paper 2 scores were recorded.

Paper 1	58	65	66	74	76	78	83	84	87
Paper 2	59	64	68	73	75	75	80	80	81



- Make a neat copy of the graph and plot the points to show these scores.
 - Draw the best fitting straight line on your diagram.
 - A student scored 68 in paper 1 but was absent for paper 2. **Use your graph** to give an estimate for their score in paper 2.
2. In a charity quiz, 10 teams took part. Their scores for the Music and Movie rounds are shown in the table below.

Team	1	2	3	4	5	6	7	8	9	10
Music	12	9	14	10	12	15	20	14	11	13
Movie	11	13	18	11	13	0	17	13	14	12

- Plot these points on a grid and draw the best fitting straight line through them.
 - Team 6 were awarded 0 for the movie round for trying to cheat. **Using your graph**, what could they have scored?
3. Over a 10 ten period, Amanda recorded the temperature outside at 10 am and 4pm.

Day	1	2	3	4	5	6	7	8	9	10
10am Temp.	12	15	16	13	17	18	14	15		14
4pm Temp.	12	15	18	12	16	18	10	11	14	16

- Plot this information on a scatter graph and draw the best fitting straight line.
- On the 2nd last day, Amanda slept in and couldn't record the temperature at 10am. **Use your graph** to estimate the temperature on this day.