Scatter Graph Questions

1)

| English Mark	25	35	30	78	45	67	91	82	60
History Mark	40	38	35	75	60	85	87	95	54

    a)   Plot a scatter graph of this data
    b)   Remember to label the axes
    c)   Draw a line of best fit on the Graph
    d)   State what type of correlation there is
    e)   A pupil gets a mark of 50 in English. What mark would you expect them to get in History?
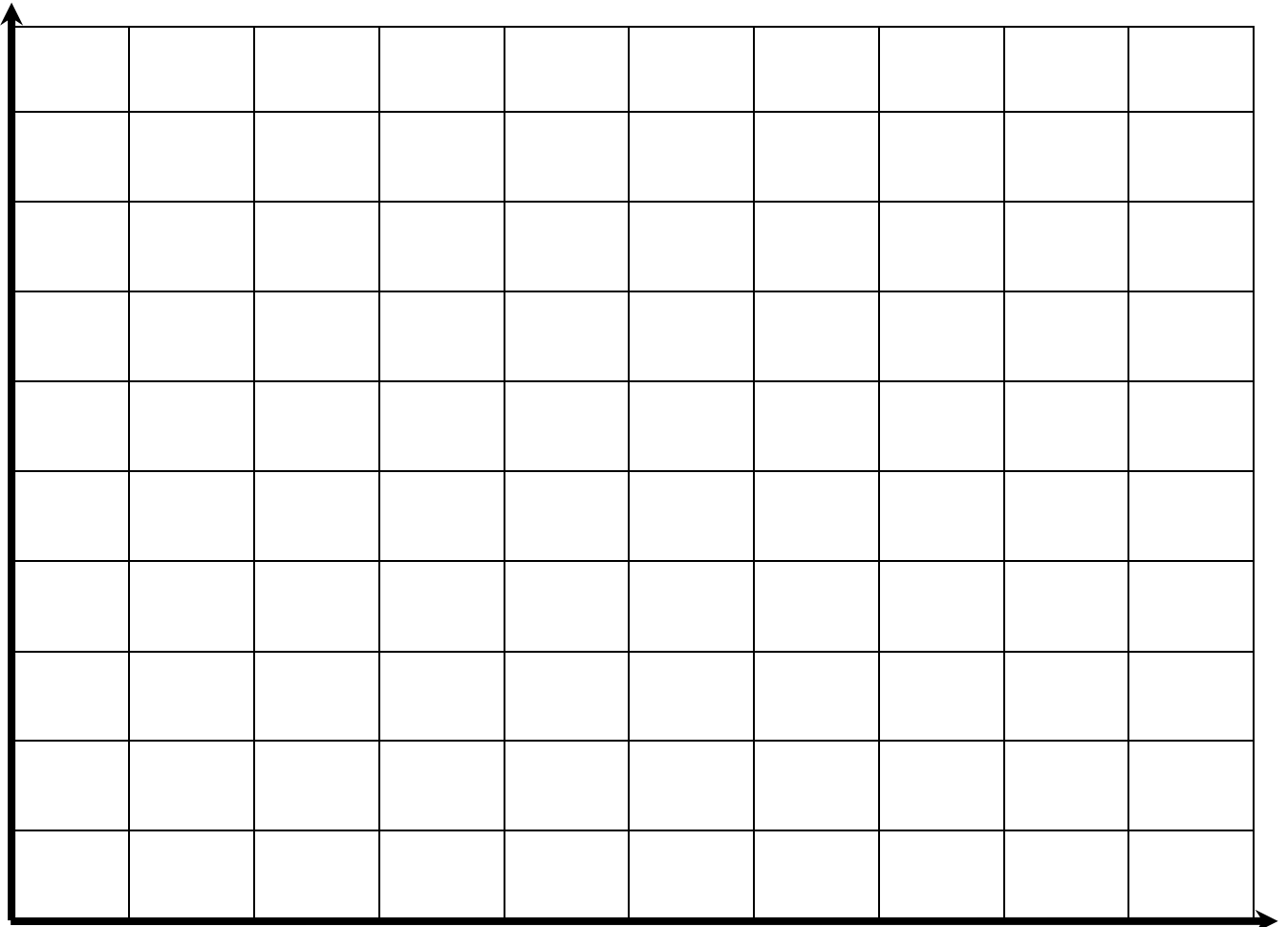
2)

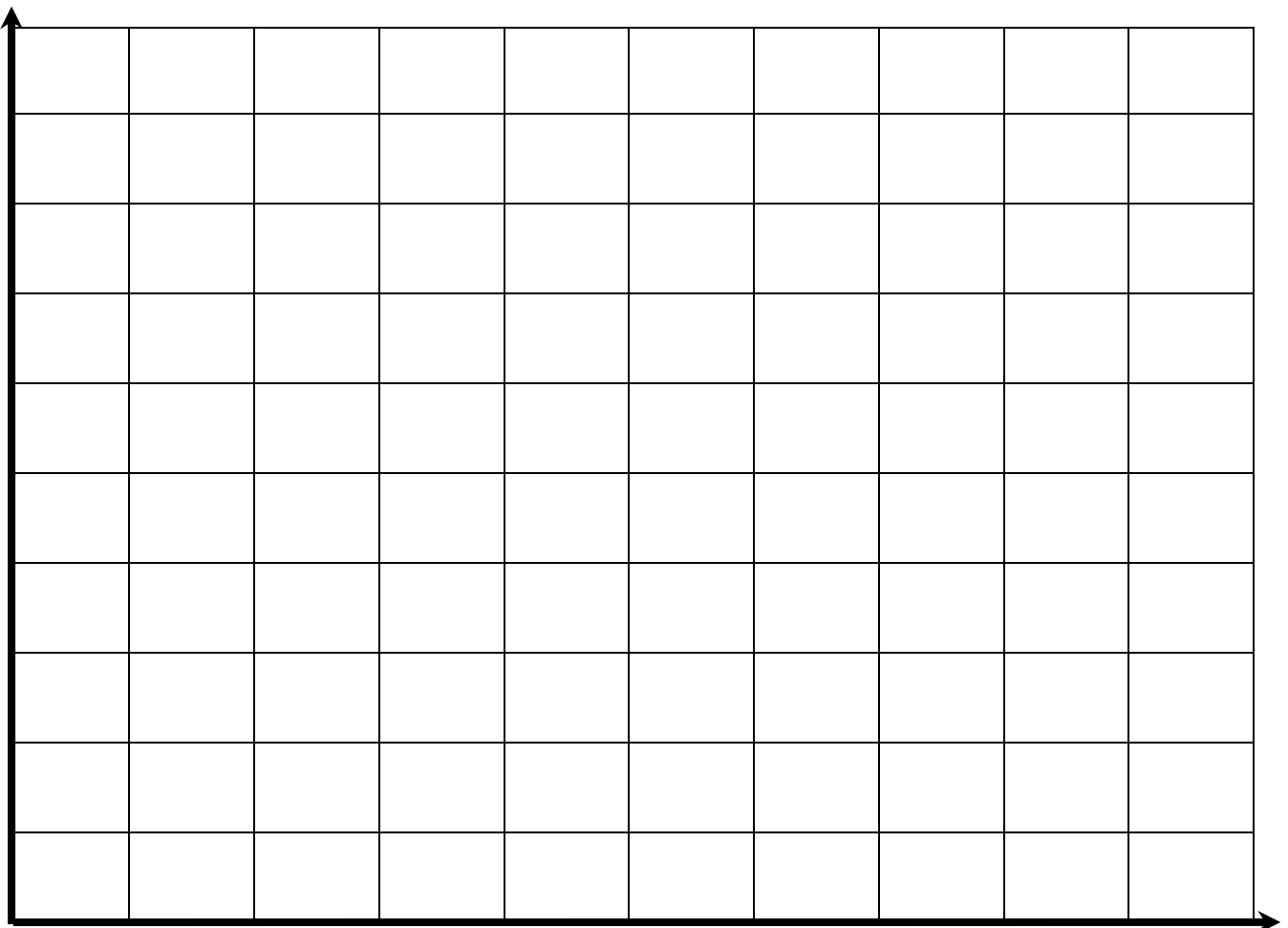| Hours of Sunshine	8	7	8	5	4	7	6	9	8
Rainfall (mm)	1	3	2	10	10	2	5	1	0

a) Plot a scatter graph of this data
b) Remember to label the axes
c) Draw a line of best fit on the Graph
d) State what type of correlation there is
e) A day has 3.5 hours of sunshine. How much rainfall do you think there would be?
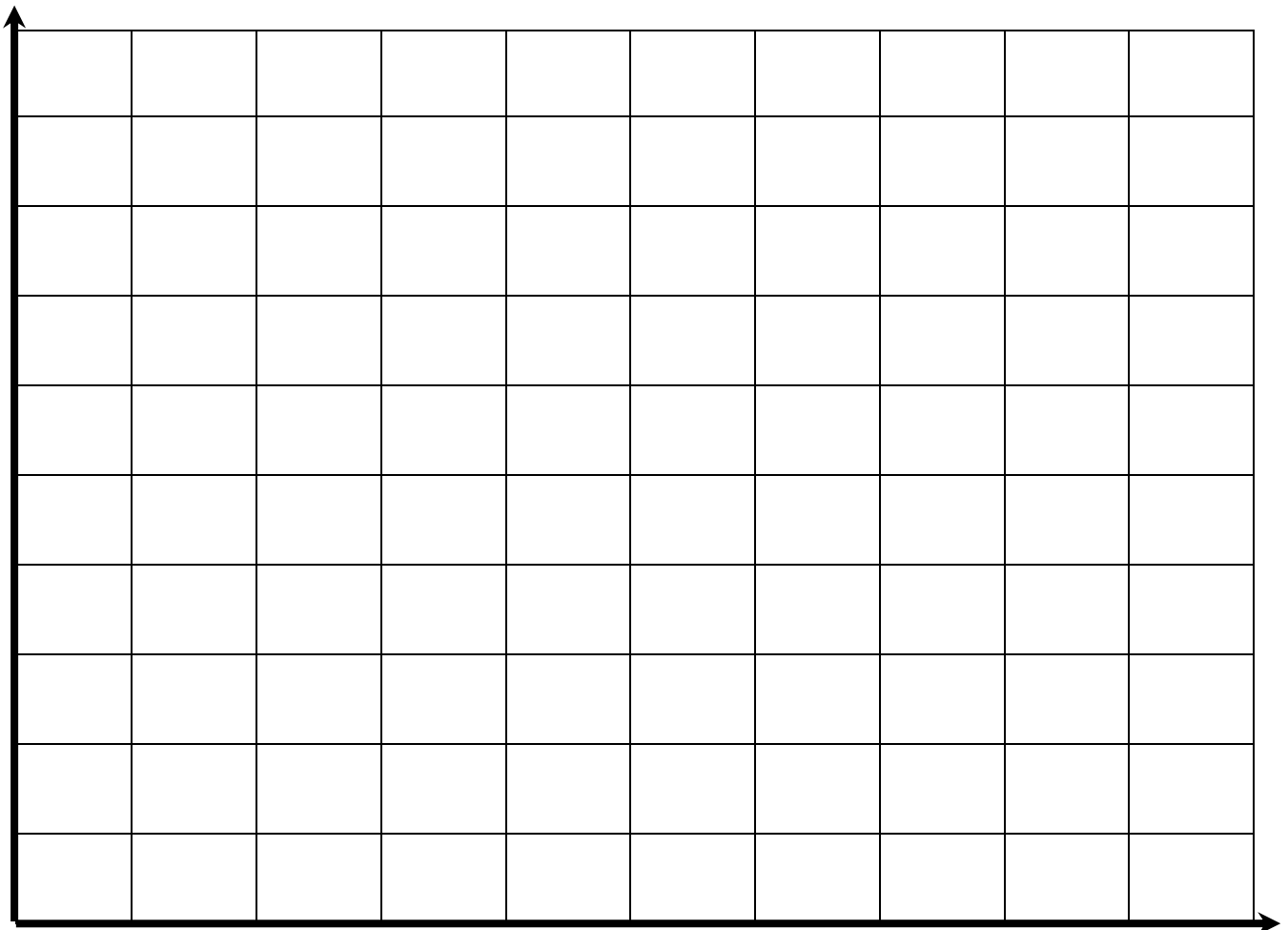
3)

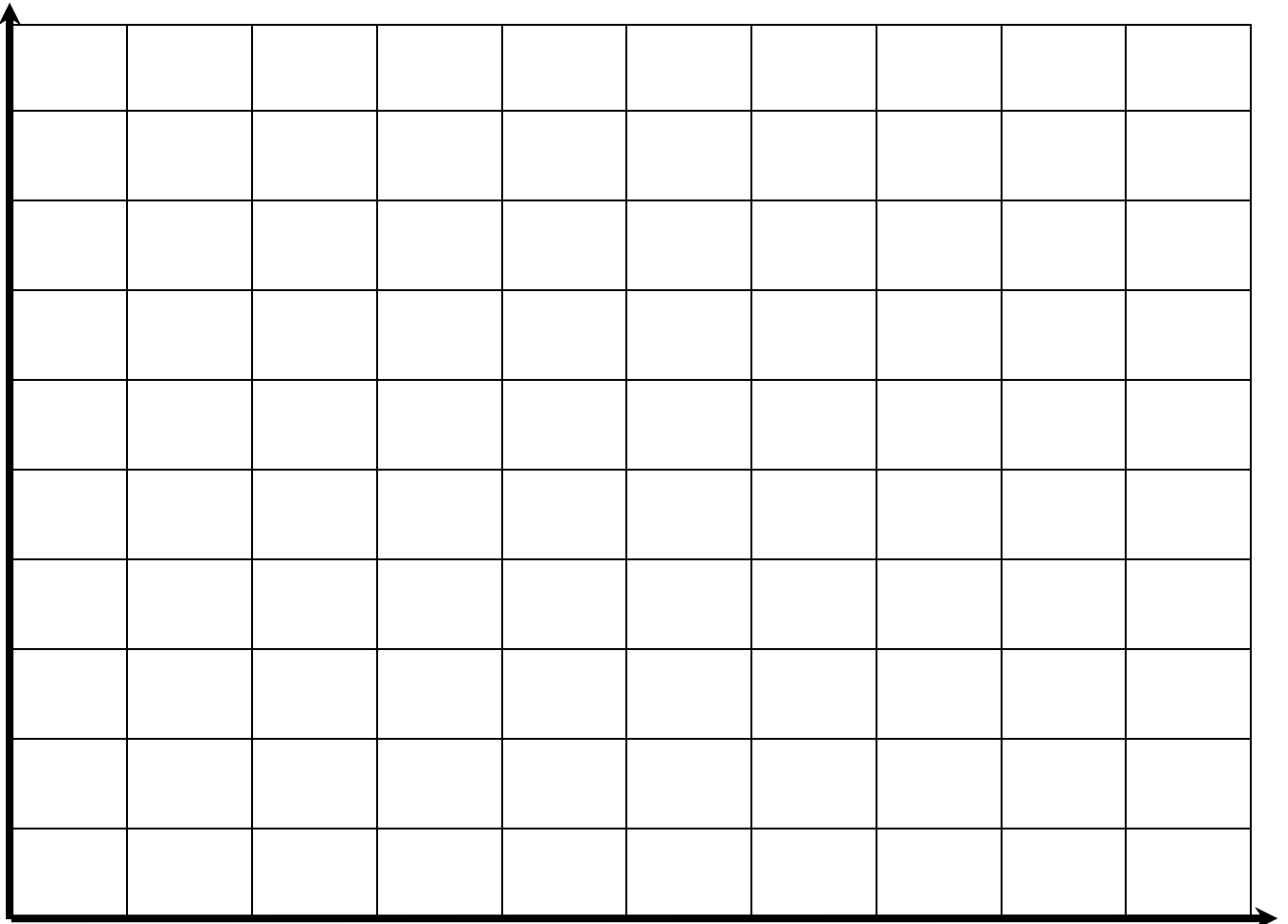| Number of Customers	30	26	28	20	12	18	32	25	27
Profits (£)	120	112	115	85	70	72	150	105	113

a) Plot a scatter graph of this data
b) Remember to label the axes
c) Draw a line of best fit on the Graph
d) State what type of correlation there is
e) If 15 customers come into the shop, how much money do you think the shop would make?

4)

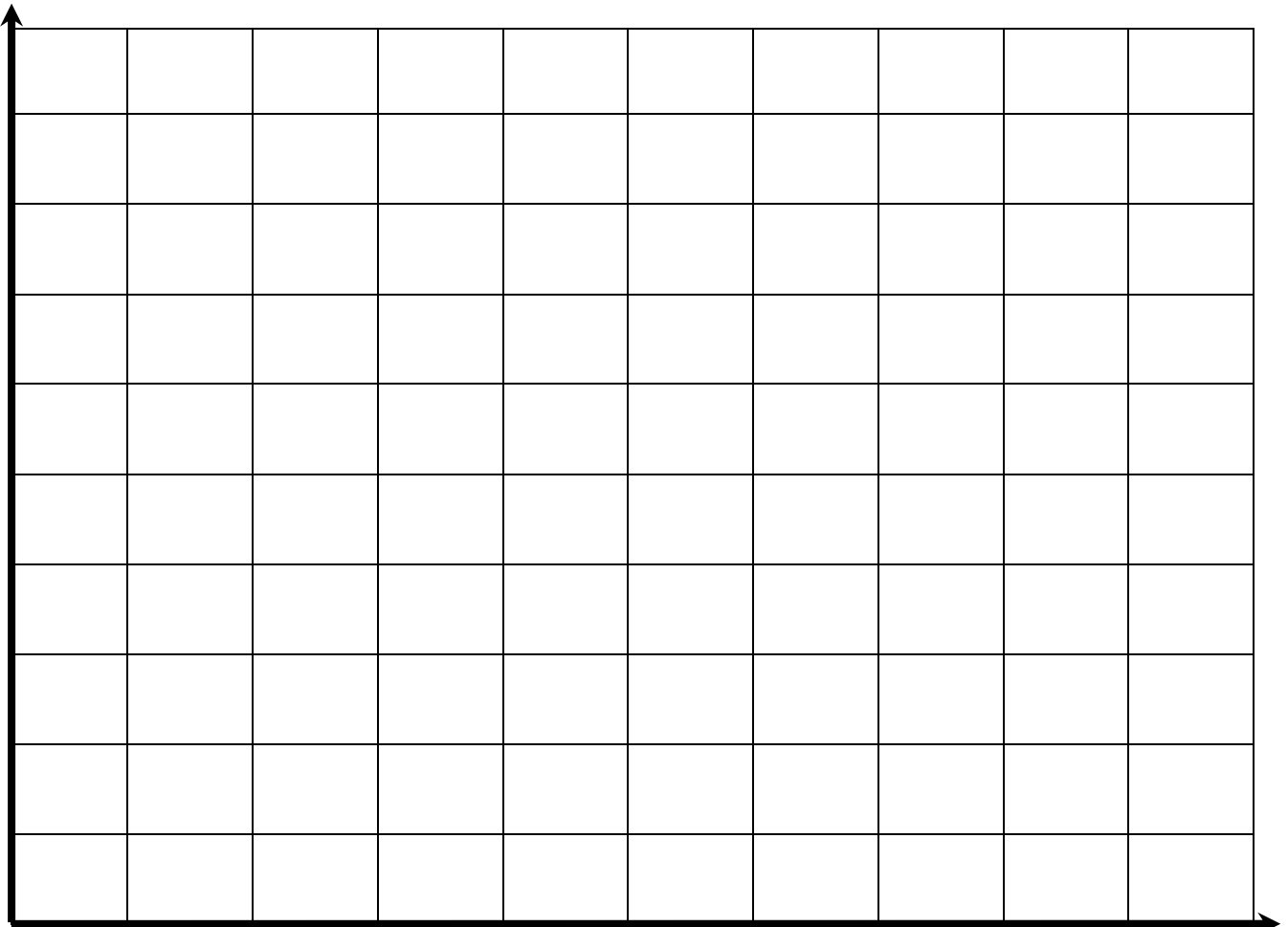| Test mark in Music	30	22	25	72	88	60	58	52
CDs Owned	28	75	110	80	100	15	30	130

a) Plot a scatter graph of this data
b) Remember to label the axes
c) Draw a line of best fit on the Graph (can you?)
d) State what type of correlation there is
e) If a pupil has a mark of 40, can you predict the number of CDs they have? Why, or why not?

5)

Resting Heart Rate (bpm)	70	90	82	61	60	55	87	75
Hours of Exercise (per week)	8	4	6	12	10	12	3	7

a) Plot a scatter graph of this data
b) Remember to label the axes
c) Draw a line of best fit on the Graph (can you?)
d) State what type of correlation there is
e) A person does 9 hours of exercise per week. What would you expect their resting heart rate to be?

6)

Money saved per month (£)	200	350	100	180	230	400	1,200	50	620
Salary (p.a)	15,000	19,000	13,000	13,500	14,500	22,000	32,000	12,000	23,000

   a) Plot a scatter graph of this data

   b) Remember to label the axes

   c) Draw a line of best fit on the Graph

   d) State what type of correlation there is

   e) If a person has a salary of £20,000 per year, how much would you expect them to save?