Graph and charts

Children were asked to state how many pets they own. Answer Q1-Q3 using this tally chart.

Number of pets	Tally	Frequency
0		3
1	JAH II	X
2		Y
3	441441	Z
4		4
More than 4	441	6

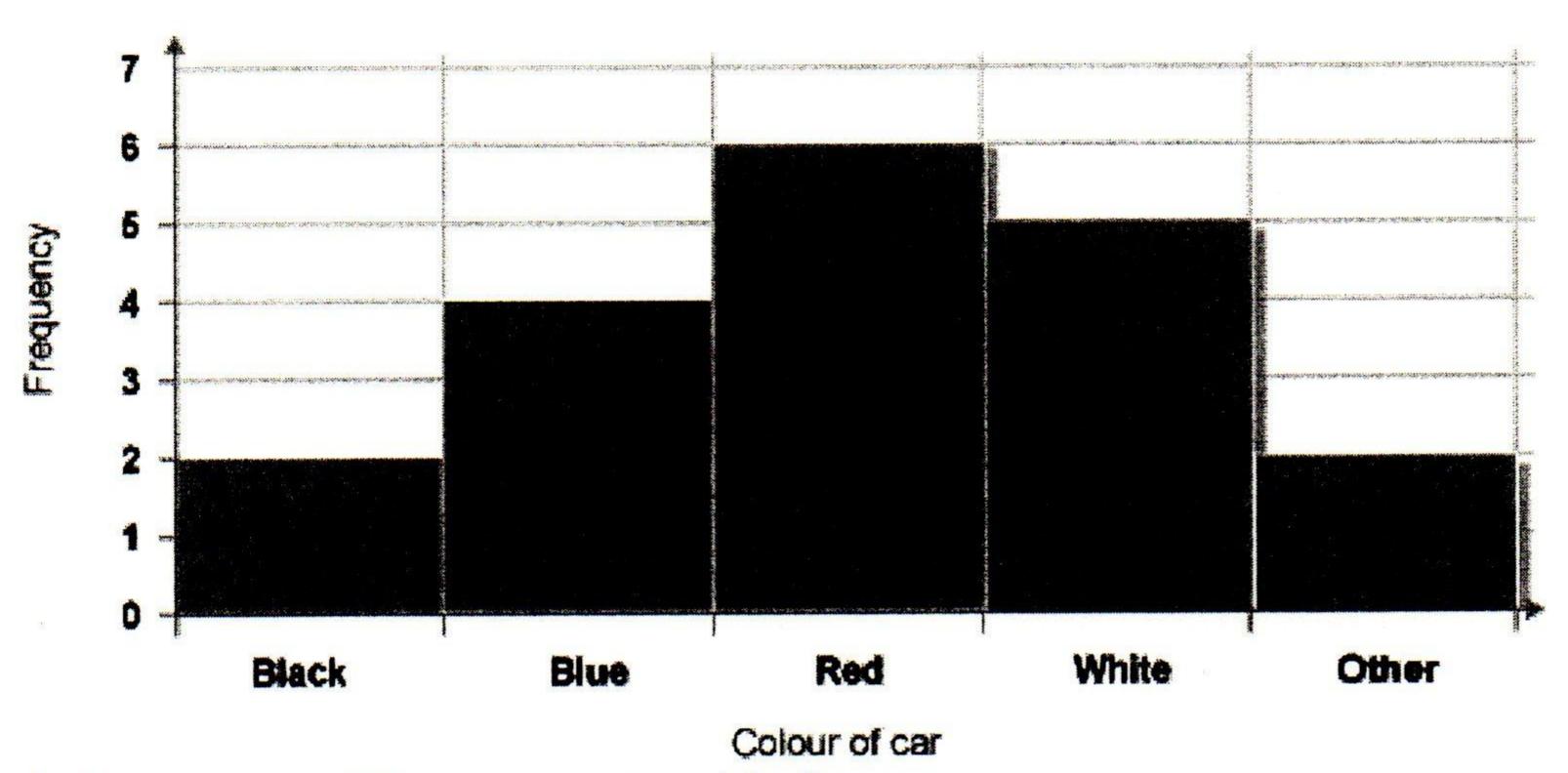
- 1. From the tally chart, what are the values of x, y and z?
- 2. How many children took part in the survey?
- 3. How many of the children own fewer than two pets?
- 4. How many of the children own more than one pet?

This two-way table shows the ages of people on a bus. Answer Q4-Q8 using this table.

0-19	20-29 30	-39 40-49	50-59	60-69	70-79	>79
Male 3	1 5	2	0	2	1	0
Female 2	2 7	1	3	4	0	1

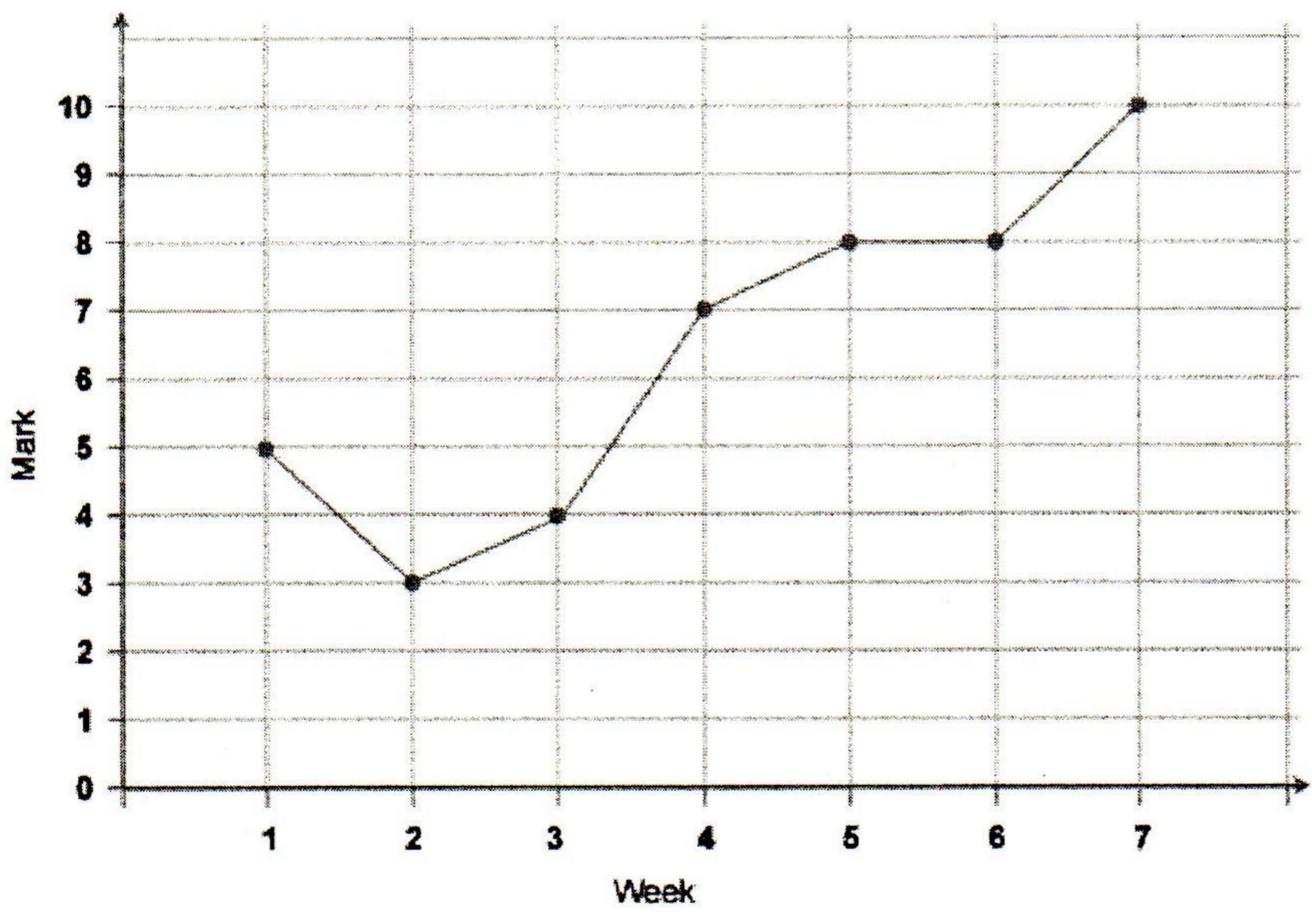
5. How many people on the bus are aged 30-39?

- 6. How many people on the bus are less than 20?
- 7. How many females are on the bus?
- 8. Lisa conducted a survey of the cars passing her house. How many cars passed in total?



9. How many of the cars were white?

10. How many more white cars passed then black cars?

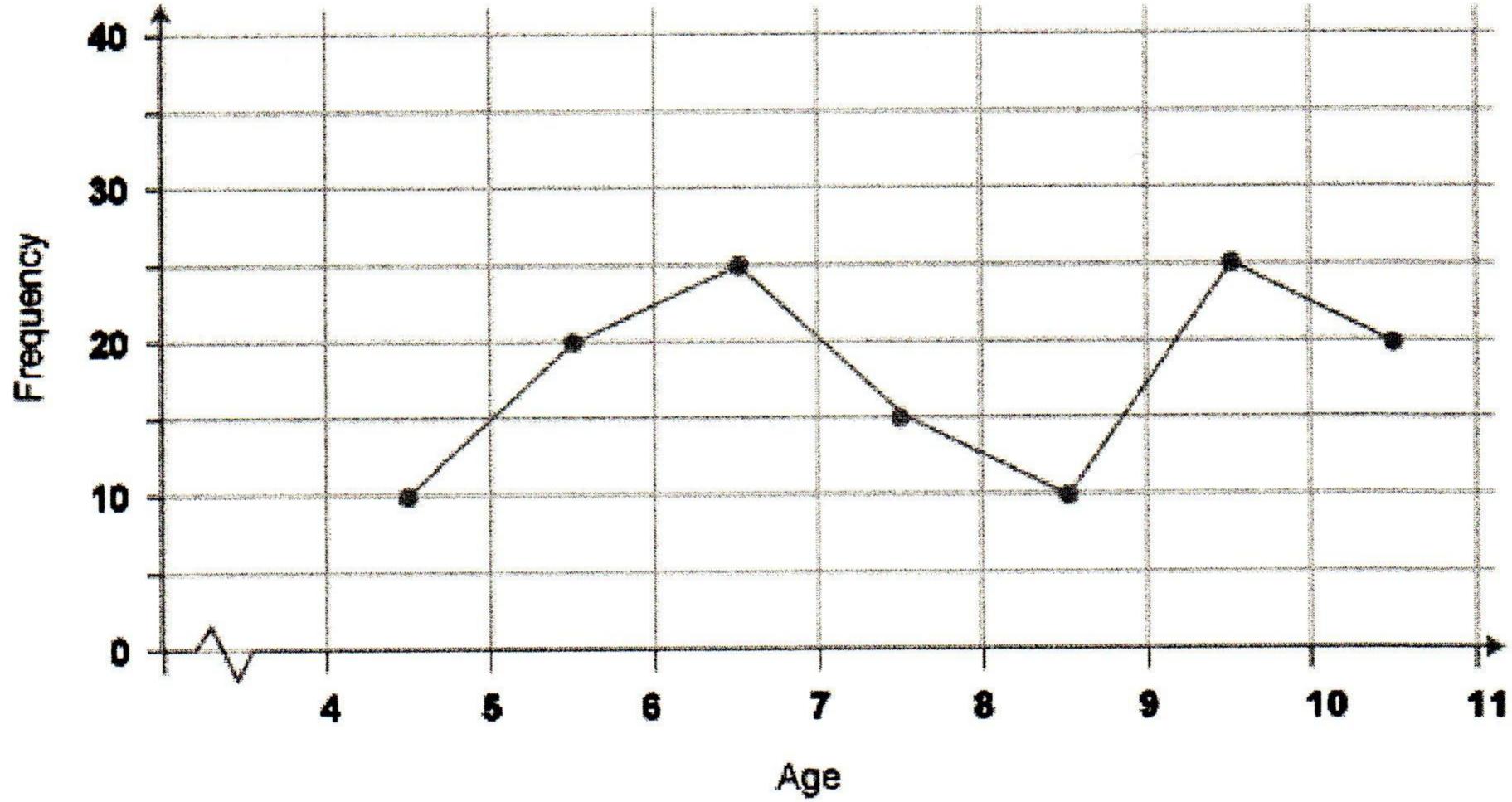


11. The line graph shows Julie's French test results over half a term. Which week was Julie's mark the same as the previous week's?

12. In which week was Julie's mark lower than the previous week's mark?

Bus	***
Car	****
Park and ride	***
Walk	***
Cycle	
Other	11

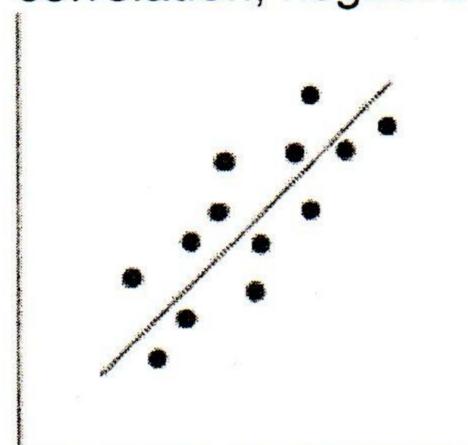
- 13. 50 people are asked how they travelled to work. From the pictogram, how many people does the figure in the key represent?
- 14. What was the most popular method of transport to work? _____
- 15. How many people used the Park and Ride service?
- 16. How many more people like car and bus then cycle?

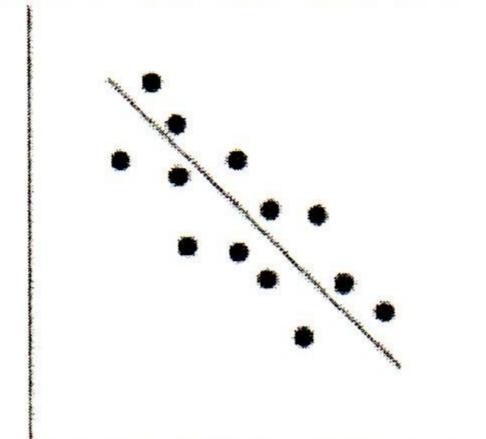


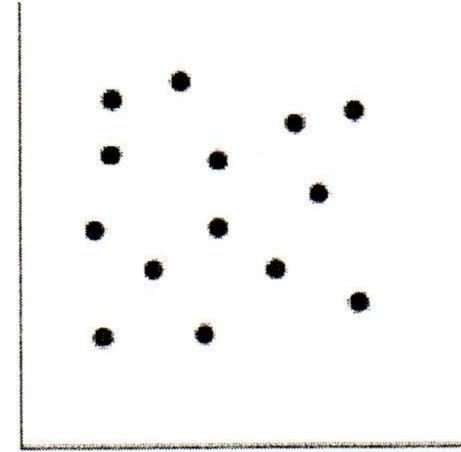
- 17. This frequency polygon shows the ages of children in a small primary school. How many are aged between 7 and 8 years?
- 18. How many of the children are over 8 years of age?

Correlation: Correlation means relation between X-axis and Y-axis over the points. Good correlation means points form a quite nice line. It means the two things are closely related to each other. Poor correlation means the points are all over the place.

- Positive correlation means line sloping uphill from left to right.
 Negative correlation means line sloping downhill left to right.
- Q.19 In the following question write the type of correlation whether positive correlation, negative correlation or no correlation.

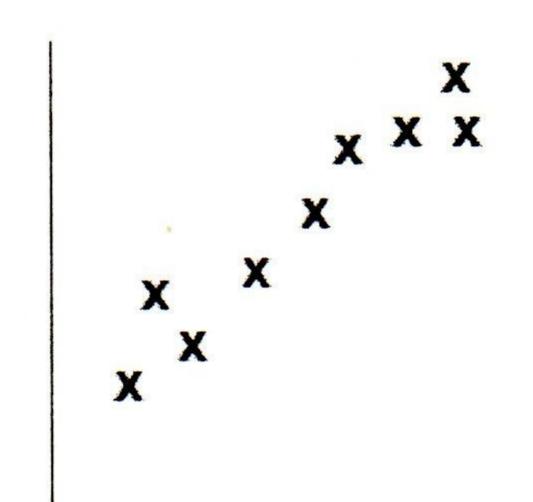




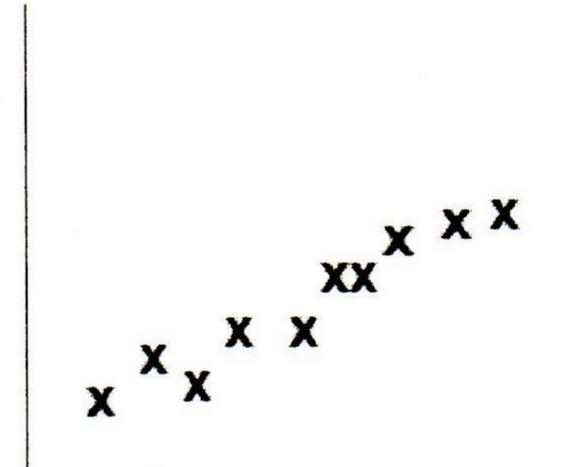


20 Describe the type of correlation for the following scatter graphs.

(iii)



(iv)



21 The table below shows the marks of pupils in two mathematics tests.

Paper 1	44	24	40	48	30	25	10	37	38	34
Paper 2	43	28	38	42	32	30	25	35	40	37

- (i) Use the data to plot a scatter graph. Let Paper 1 be the horizontal axis
- (x) and Paper 2 be the vertical axis (y).
- (ii) Describe the correlation.
- (iii) Work out the mean for Paper 1 and for Paper 2 and use this to help you draw a line of best fit on your scatter graph.
- (iv) A girl was absent for Paper 2. She scored 32 marks on Paper 1. Use your graph to estimate her mark for Paper 2.