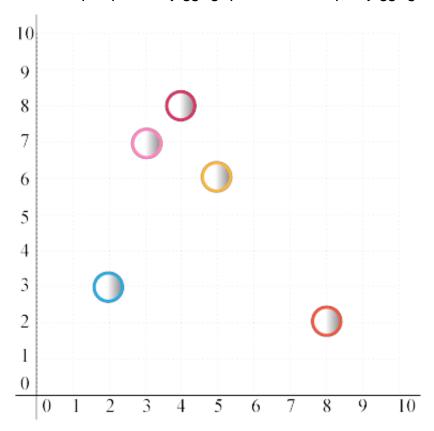
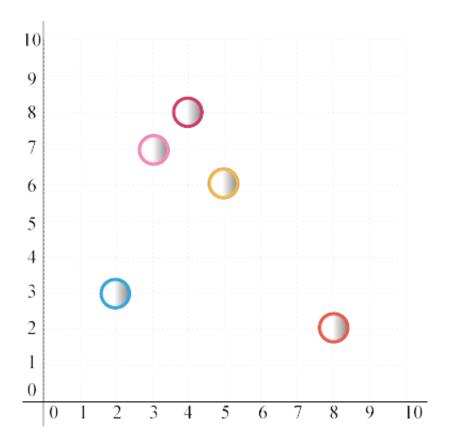
Eighth Grade - Statistics and Probability

1) Determine whether a scatter plot of the data for the following might show a positive, negative, or no relationship. A person's jogging speed and time spent jogging.



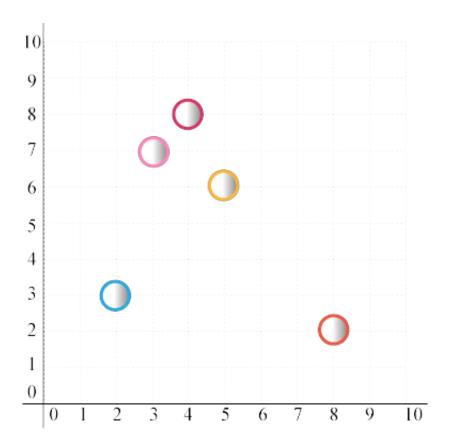
- Negative relationship
- No relationship
- · Cannot be Determined
- Positive relationship

2) Determine whether a scatter plot of the data for the following might show a positive, negative, or no relationship. The size of a family and the weekly grocery bill.



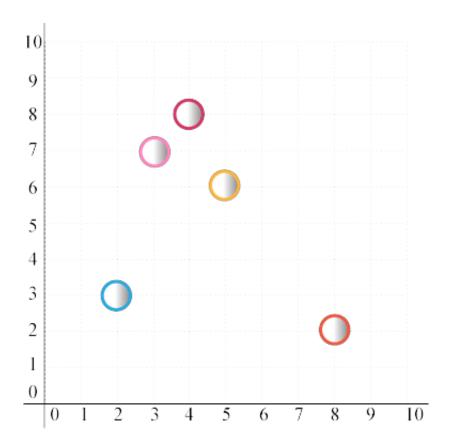
- Positive relationship
- Cannot be Determined
- No relationship
- Negative relationship

3) Determine whether a scatter plot of the data for the following might show a positive, negative, or no relationship. The size of a car and the cost.



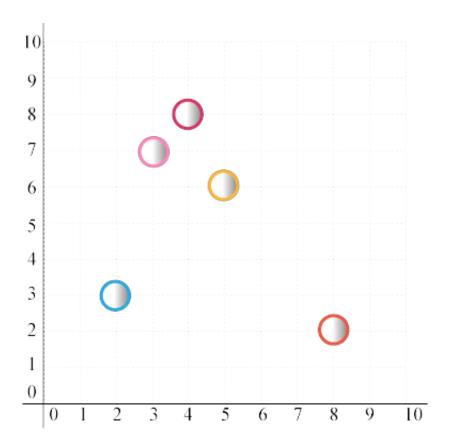
- Cannot be Determined
- Positive relationship
- No relationship
- Negative relationship

4) Determine whether a scatter plot of the data for the following might show a positive, negative, or no relationship. A person's weight and percent body fat

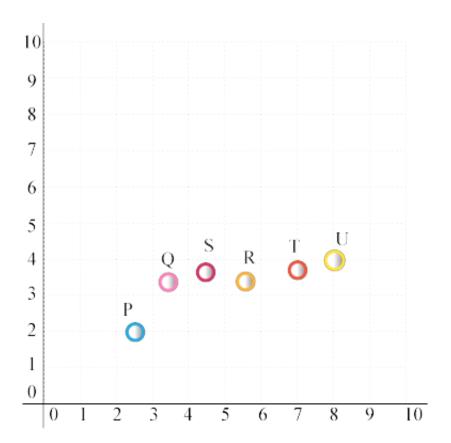


- Cannot be Determined
- · Positive relationship
- Negative relationship
- No relationship

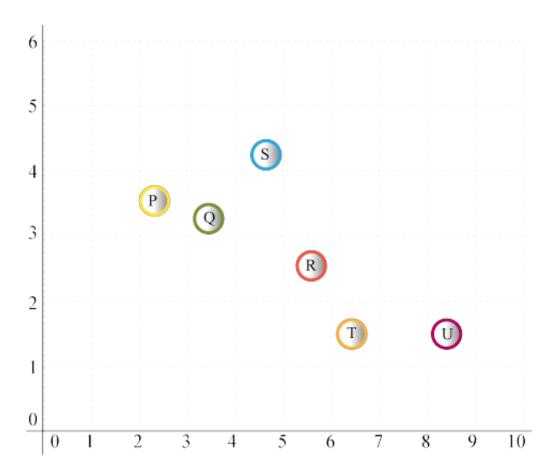
5) Determine whether a scatter plot of the data for the following might show a positive, negative, or no relationship. Time spent playing video games and time spent on outdoor activity



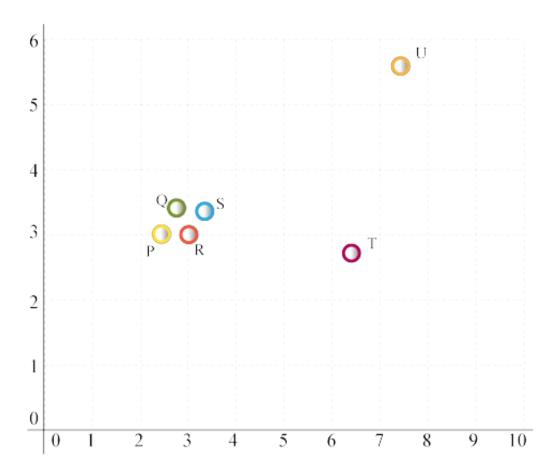
- No relationship
- Cannot be Determined
- Negative relationship
- Positive relationship



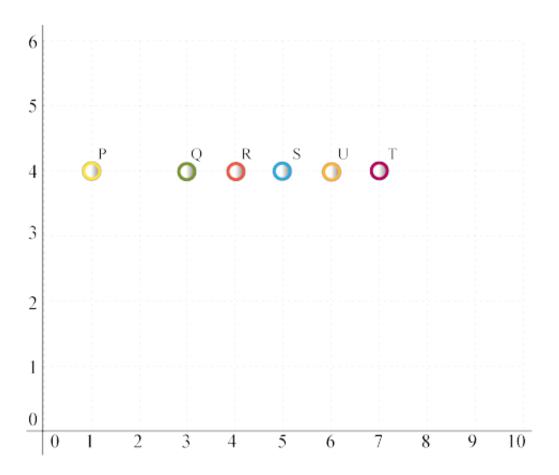
- Positive trend
- Negative trend
- No trend
- Data is insufficient



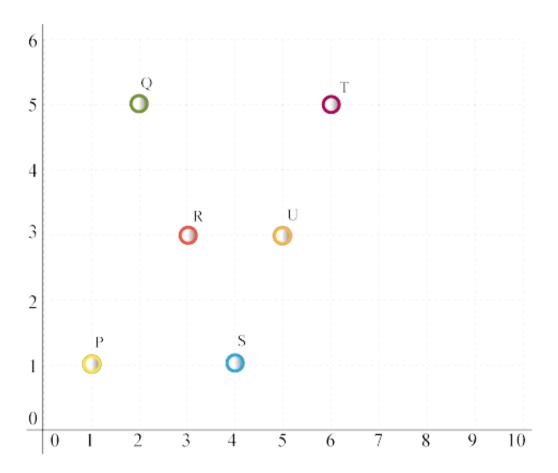
- · Negative trend
- Data is insufficient
- Positive trend
- No trend



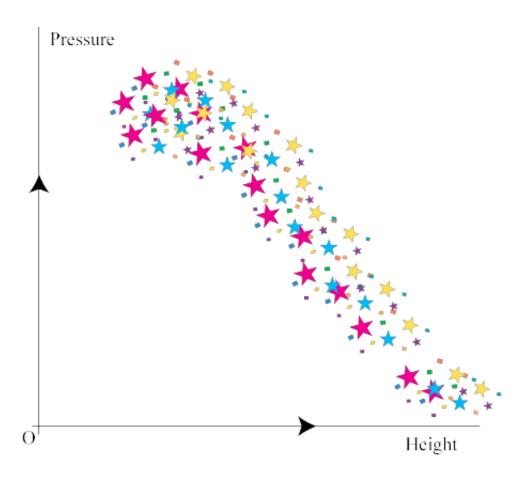
- Negative trend
- Positive trend
- No trend
- Data is insufficient



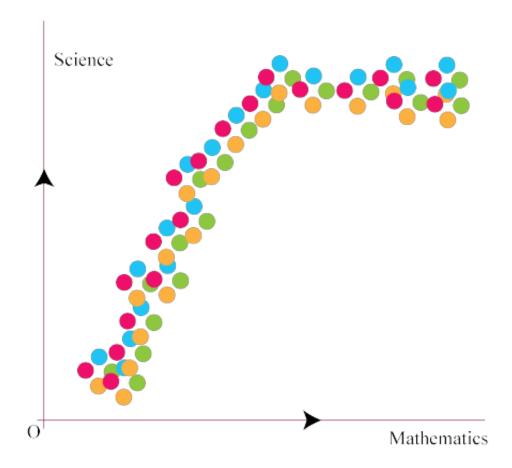
- · Positive trend
- Negative trend
- No trend
- Data is insufficient



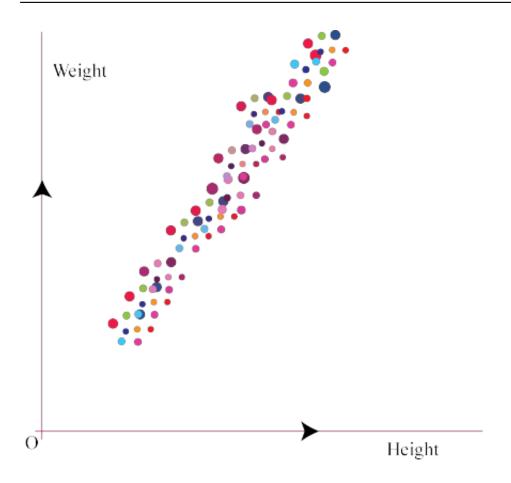
- Negative trend
- No trend
- Positive trend
- Data is insufficient



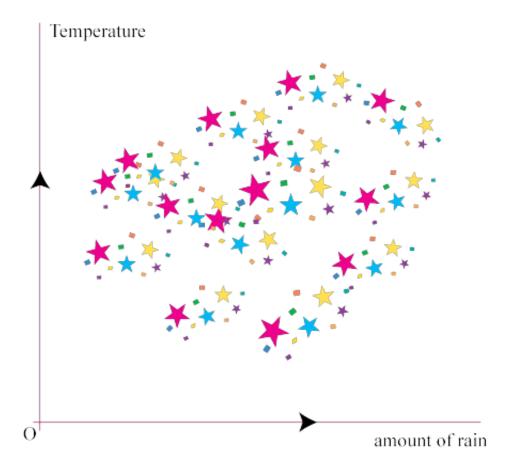
- There is no association between pressure and height
- As pressure decreases height increases
- As pressure decreases height also decreases
- As pressure increases height also increases



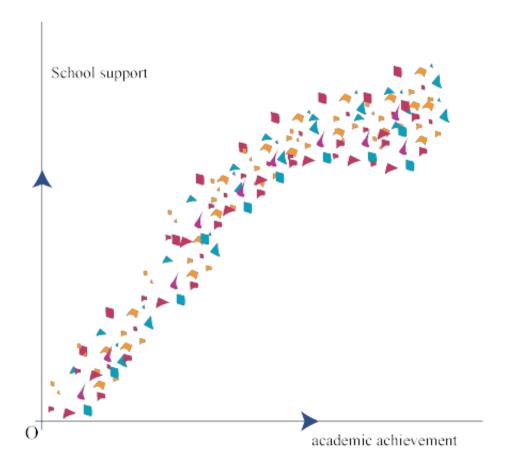
- As maths grade increases science grade also increases
- As maths grade decreases science grade also decreases
- There is no association between maths grade and science grade
- As maths grade decreases science increases



- As weight decreases height also decreases
- As weight decreases height increases
- As weight increases height also increases
- There is no association between weight and height

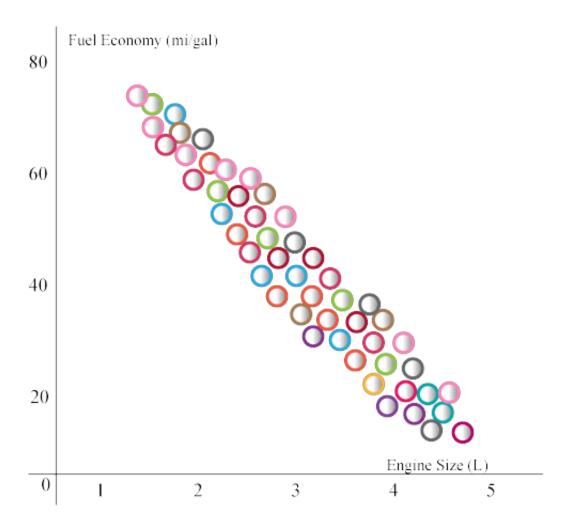


- There is a strong negative relation between the variables
- There is a strong positive relation between the variables
- There is a no relation between the variables
- There is a positive relation between the variables



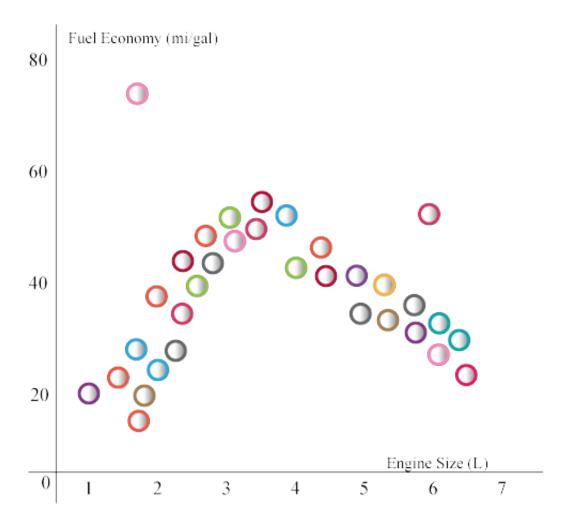
- There is a strong negative relation between the variables
- There is a positive relation between the variables
- There is a negative relation between the variables.
- There is a no relation between the variables

16) Write positive association, negative association, no association or non-linear association to describe the relationship



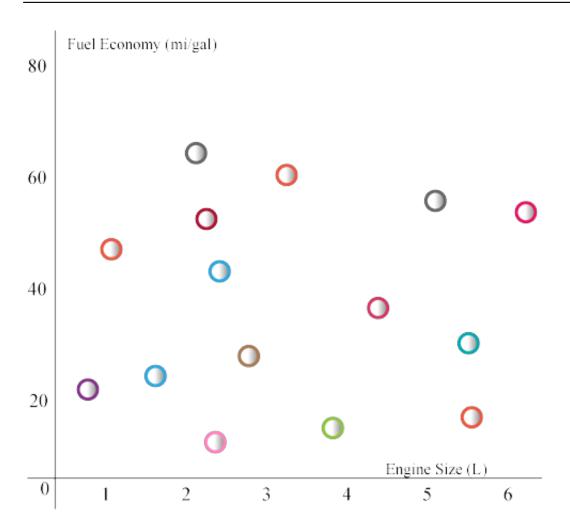
- Positive Linear Association
- Negative Linear Association
- No Association
- Non-linear Association

17) Write positive association, negative association, no association or non-linear association to describe the relationship



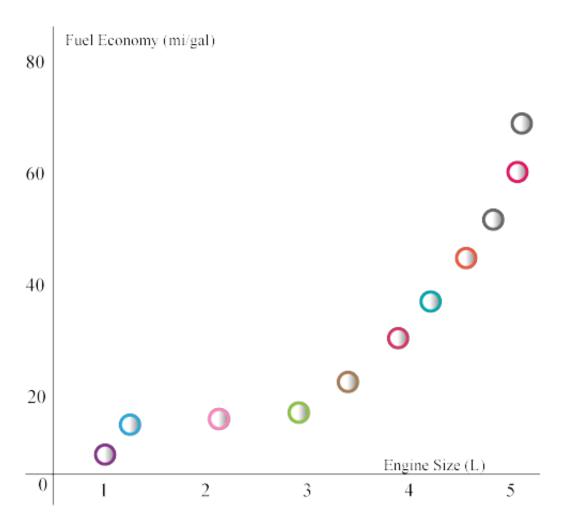
- Non-linear Association
- No Association
- Positive Linear Association
- Negative Linear Association

18) Write positive association, negative association, no association or non-linear association to describe the relationship.



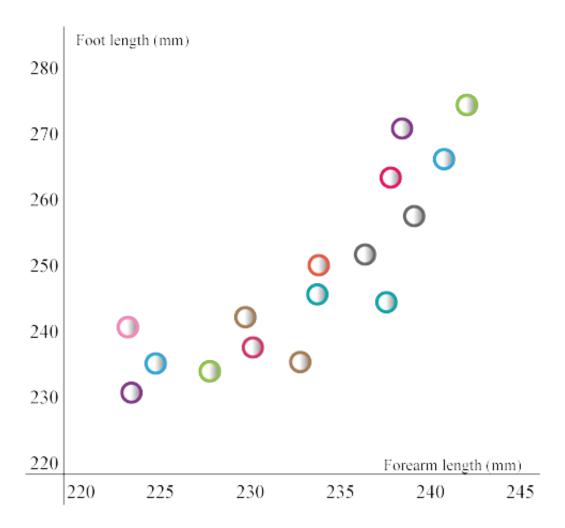
- Negative Linear Association
- Positive Linear Association
- Non-linear Association
- · No Association

19) Write positive association, negative association, no association or non-linear association to describe the relationship



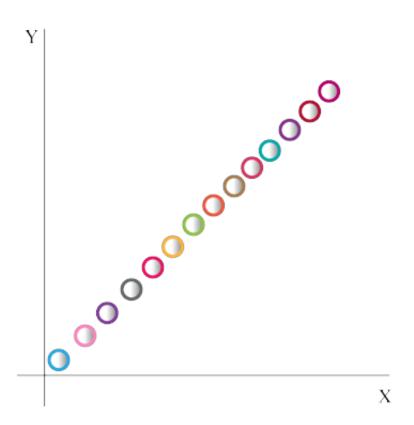
- No Association
- Negative Linear Association
- Positive Linear Association
- Non-linear Association

20) Select the best description the association between forearm length and foot length

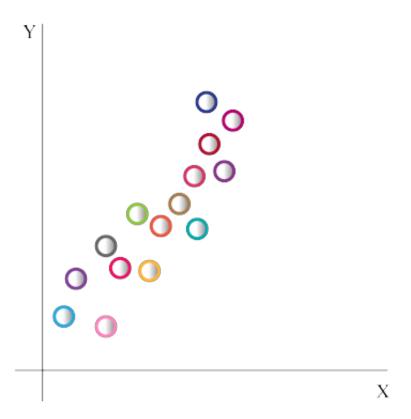


- · Negative association
- No association
- Positive association
- We cannot fit a straight line

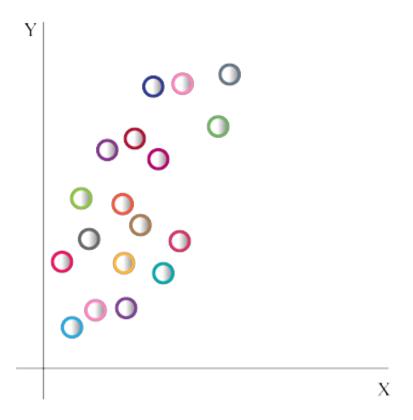
21) Match these labels to the diagrams: "no association", "strong positive association", "weak positive association", "perfect negative association", "weak negative association"



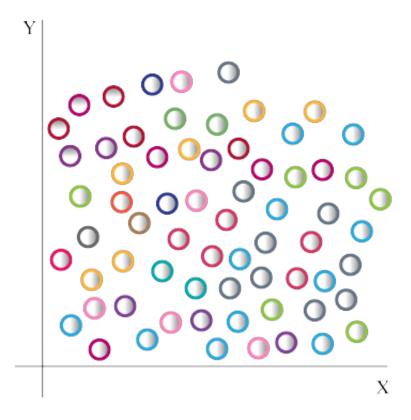
- Strong positive association
- Weak positive association
- No association
- Weak negative association



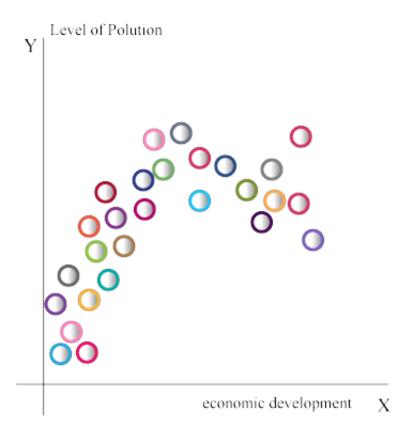
- Strong positive association
- Weak negative association
- No association
- · Weak positive association



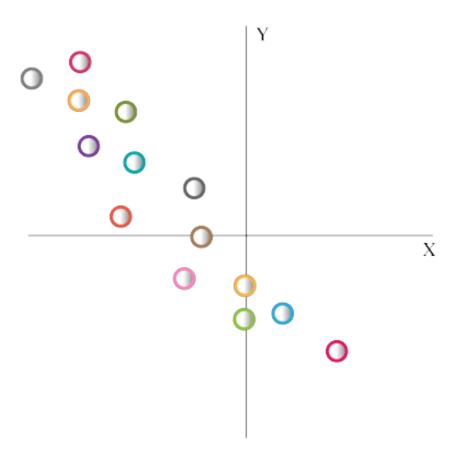
- Weak negative association
- No association
- Strong positive association
- Weak positive association



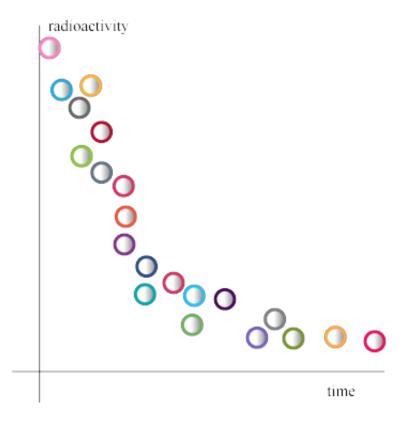
- No association, or no correlation between X and Y
- Non-linear association
- Strong positive association
- · Perfect positive association



- Non-linear association
- Perfect positive association
- · Strong negative association
- Weak negative association

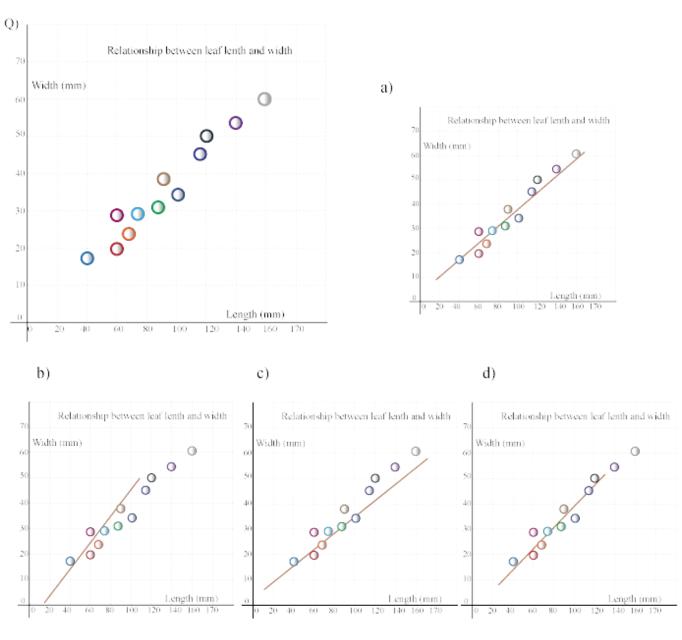


- Perfect positive association
- Weak negative association
- Non-linear association
- Strong negative association



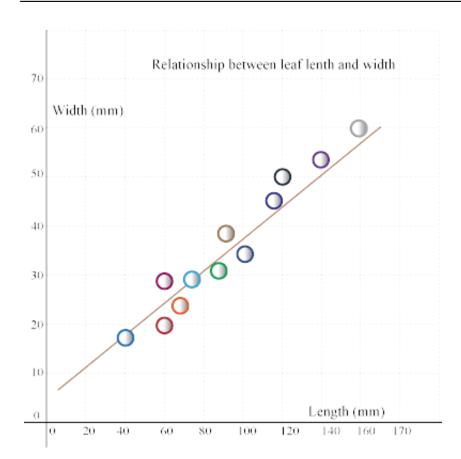
- Strong negative association
- Weak negative association
- Non-linear association
- Perfect positive association

28) The length and width of 10 leaves are shown below on the scatter diagram, using a straight edge draw a suitable line of best fit



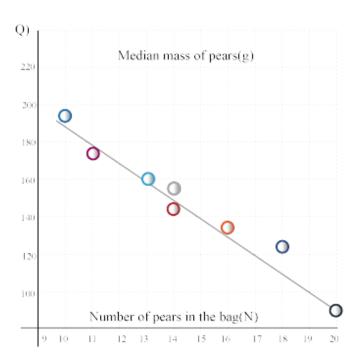
- a
- C
- d
- h

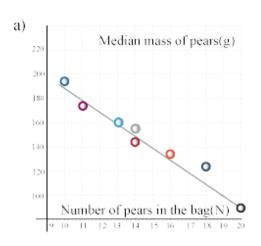
29) The length and width of 10 leaves are shown below on the scatter diagram, write a sentence describing the relationship between leaf length and leaf width for this sample.

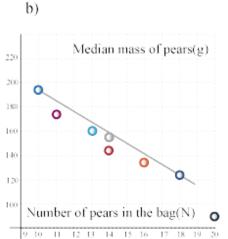


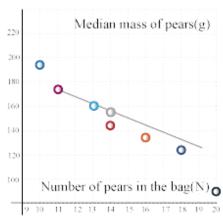
- · Length decreases, width decreases
- · Length decreases, width increases
- · Length increases, width increases
- · Length increases, width decreases

30) Emily is investigating the sizes of pears in 2 kg bags with the help of the scatter diagram shown below: Using straight edge draw a suitable line of best fit.

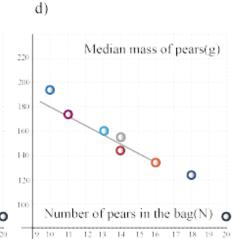








c)



- d
- a
- b
- C