2E – How to interpret a scatterplot

**DIRECTION (OF AN ASSOCIATION)**

If the scatterplot shows an UPWARDS trend from left to right it is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_

association. The value of the response variable \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as the value of the

explanatory variable increases.

If scatterplot shows a DOWNWARDS trend from left to right it is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

association. The value of the response variable \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as the value of the

explanatory variable increases.

Sometimes there is an overall trend in direction with a small number of points that

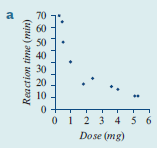
contradict the trend. These data points may be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the data set.

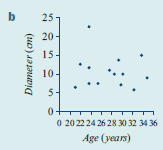
If there is NO upwards or downwards trend evident there is \_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

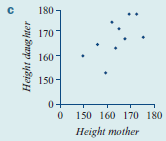
The value of the response variable does not consistently increase or decrease as the

value of the explanatory variable increases.

*Classify each of the following scatterplots in regard to their direction and explain in context:*







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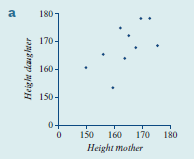
**FORM (OF AN ASSOCIATION)**

If the points on the scatterplot tend to follow a STRAIGHT line (with some degree of

scatter) it is a \_\_\_\_\_\_\_\_\_\_\_ form.

If the points on the scatterplot tend to follow a CURVED line (with some degree of scatter) it is a \_\_\_\_-\_\_\_\_\_\_\_\_\_\_ form.

*Classify the following scatterplots in regard to their direction and form and explain in context:*





**STRENGTH**

The strength of an association relates to the degree of scatter away from the trend

line or curve. A very small degree of scatter shows a \_\_\_\_\_\_\_\_ association, a

medium degree of scatter shows a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ association, and a large

degree of scatter shows a \_\_\_\_\_\_\_\_ association.

*Classify the following scatterplots in regard to their strength, direction and form:*

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