Terms:

Dependent Variable: Variable that is affected by some other

variable. (Its value is dependent on another.)

Plotted on the y axis

Independent Variable: Variable that affects another variable.

Plotted on the x axis

Outlier: a measurement that differs significantly from the rest of the data.

Example 1: The following data shows the minimum stopping distances y on wet asphalt at various speeds.

b)

	y on we
Speed (km/h)	Stopping Distance (m)
10	0.9
20	3.2
30	7.3
40	13
50	20.1
60	28.6
70	39.1
80	51.3
90	64.8
100	80
110	96.5

Identify the independent variable and a) dependent variable.

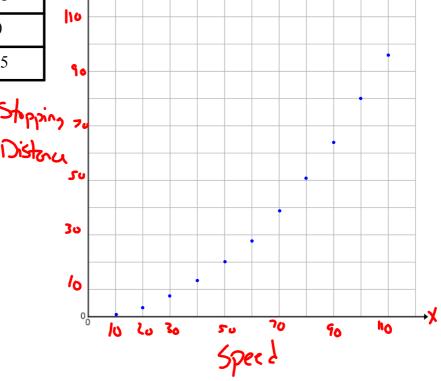
Independent - Speed dependent - St Make a Scatter plot of the data.

c) Describe the relationship between the speed of the car and its stopping distance on wet asphalt.

The faster your speed the

longer it will take to stop

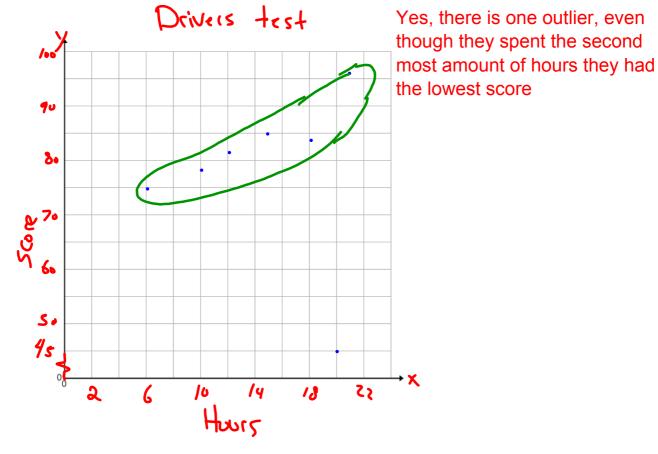
Stopping on wet ashpalt



Ex. 2. The following table lists the number of hours of driving instruction received by students at a driving school and their driving test scores.

Depodent (y) Independent (x Students Score Instructional Hours	
Instructional Hours	
10	
15	
21	
6	
18	
20	
12	

- a) Identify the independent and dependent variable.
- b) Make a scatter plot of the data.
- c) Describe the relationship
 between the variables.
 The more hours spent with a driving instructor
 the better your score will be
- d) Are there any outliers? If so explain how they differ from the rest of the data.



driving scores.xls