Create a Scatter Plot

Scatter Plots→ Picture of the relationship between two sets of data
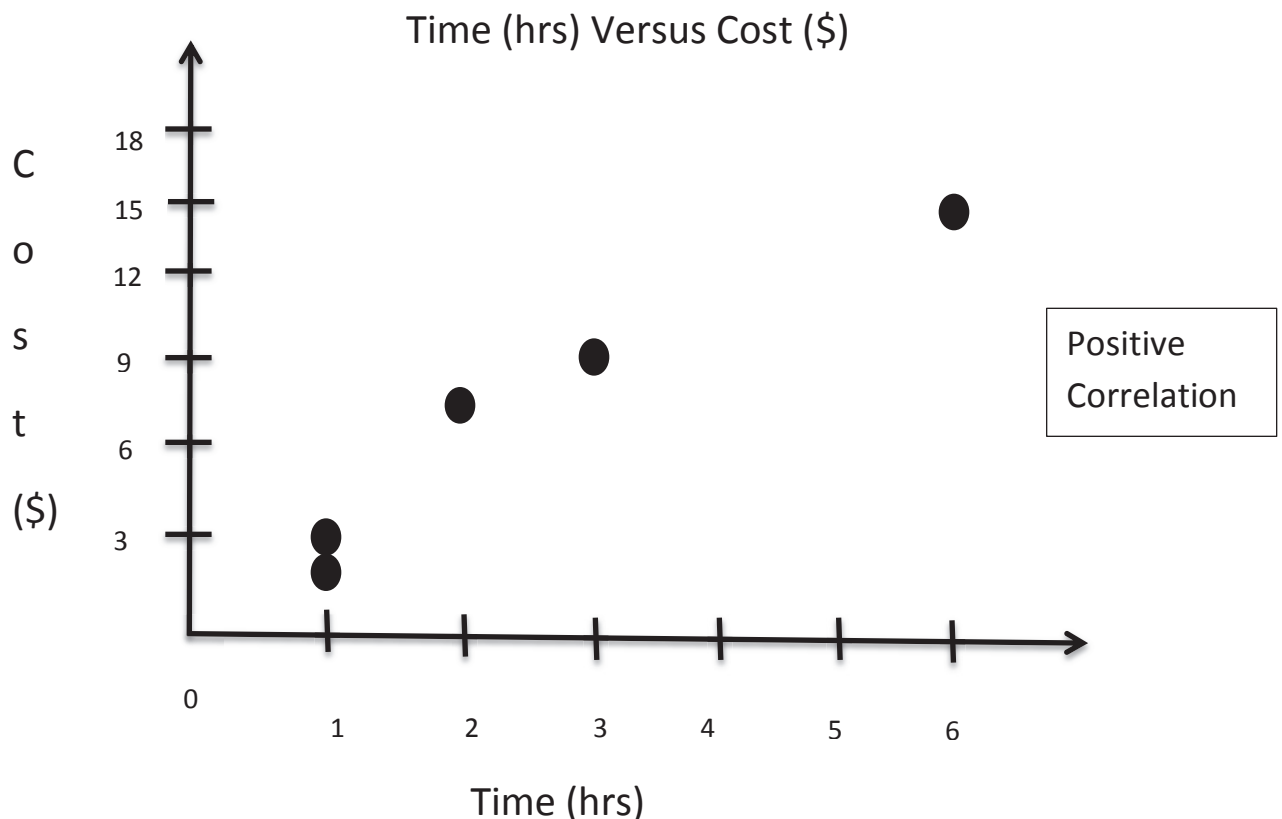
Requirements for Creating a Scatter Plot:

- Title the scatter plot
- Label the x- and y-axis
- Scale each axis appropriately

Identifying the Correlation:

- If the x-coordinates and the y-coordinates both increase, then it is **POSITIVE CORRELATION**. This means that both are going up, making an uphill graph. This means they are related.
- If the x-coordinates and the y-coordinates have one increasing and one decreasing, then it is **NEGATIVE CORRELATION**. This means that one is going up and one is going down, making a downhill graph. This means the two are related as opposites.
- If there seems to be no pattern, and the points look scattered, then it's **NO CORRELATION**. This means the two are not related.

Example:

x	Time (hrs)	6	2	1	1	3
y	Cost ($)	15	7	3	2	9

Time (hrs) Versus Cost ($)

Positive Correlation

Time (hrs)

Create Scatter Plots for the following tables and state the correlation (positive, negative, or no correlation):

1.

Time (hrs.)	2	5	6	1	3	4	8
Distance (m)	25	53	57	15	32	46	82

2.

Cost ($)	100	45	33	22	49	15	67
Supply	5	12	25	68	8	65	8

Create Scatter Plots for the following tables and state the correlation (positive, negative, or no correlation):

3.

Days	3	2	5	7	1	6	4
Weight (lbs)	35	15	105	10	18	55	3

4.

Age	10	12	13	16	18	15	12
Size	35	40	43	53	60	65	48