**Assessment Answers**  
  
1. Data Visualization is the graphical representation of data which helps for decision making. Reports, graphs, charts are some of the forms of presenting data insights.  
  
3. Mathematical Functions in Tableau  
  
ABS – returns the absolute number . Ex – ABS(-5) = 5  
Square – returns the square of a number. Ex – Square(6) = 36

Sqrt – returns the square root of a number. Ex – SQRT(36) = 6

6. Benefits of PowerBI Dashboard  
  
It is user friendly  
Ease of use  
Helps in efficient decision making  
Able to connect various data sources like excel, csv, pdf etc…  
  
8. Charts

Bar Chart – used to represent numerical values with length bars.  
Pie Chart – shows data as percentage of the number.  
Line Chart – used to represent trends.

Donut Chart – used to represent proportions.  
Maps – used to represent geographical locations.  
  
9. Power Query – It is used to transorm data such as cleansing , removing rows and columns, merging data.  
 Power Pivot – It is used to data modeling and calculations using DAX(Data Analysis Expressions).  
 Power Map – It is used to visualize data using different data source.  
 Power View – It is used to connect data and filter data.