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# Analysis Tasks

## **Mean Salary Calculation:**

Mean = , n= number of data points, i= datapoint index

*Mean* =

## **Median Age Calculation:**

1. Sort the datapoints:

* [22, 24, 25, 26, 28, 29, 30, 32, 33, 35, 36, 38, 39, 40, 41]

1. N= 15, so the middle index = 7th

*Median* = **32**

## **IQR for Projects Completed:**

From step 1 at getting the median: [3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17]

IQR = min( 3rd quarter) – max(1st quarter)

min( 3rd quarter) = 13th value = 15 , max(1st quarter) = 3rd value= 5

* *IQR* = 15 – 5 = **10**

## **Variance for Hours worked per week:**

Variance = SS/(n-1) , SS: sum-of-squares =

SS =

* *Variance* = 198/14 = 14+(2/14)

## **Std Deviation for Hrs/week :**

From the variance given:

## **Z-Score for Performance Rating(for the one of** *7***-valued):**

z-score =

SS =

* *Z-score* =

# Visualization Tasks:

