**Data Measurement Plan**

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| --- | --- | --- | --- | --- | --- |
| Performance Measure | Data Source and Location | How Will Data Be Collected | Who Will Collect Data | When Will Data Be Collected | Target Sample Size |
| **Notification**: Number of times Phone received notification for the day | iPhone  Setting>Screen Time | By iPhone | Data is collected by Apple. I will add to spread sheet | 5/15/22 | 30+ |
| **Pickups**:  Number of times Phone was picked up for the day | iPhone  Setting>Screen Time | By iPhone | Data is collected by Apple. I will add to spread sheet | 5/15/22 | 30+ |
| **Weekdays**:  Yes/no if the date is a weekday. M-F | Calendar | By checking calendar | Lorenzo G | 5/20 | na |
| Total minutes of screen time for the day | iPhone | - Recording screen time from iphone.  - Multiplying the # of hours by 60 to get hours in minutes  - add the remaining minutes | Lorenzo G | 5/25 | na |
| # Of hours of screen time | Iphone | By iphone | Data is collected by Apple. I will add to spread sheet | 5/15/25 | na |
| # of Minutes of screen time (excluding hours of screen time) | Iphone | By iphone | Data is collected by Apple. I will add to spread sheet | 5/15/25 | na |

**SQL Measure**

SQL: Measure

1.Defect opportunities per unit:

D = 1

2.Units produced per timeframe:

U = 53

3.Total possible defects per timeframe:

D × U =53

4.Total actual defects in timeframe:

A =31

5.Defect-per-opportunity rate:

A ÷ DU = DPO =31/53= .5849

6.Defects per million opportunities (DPMO):

DPO × 1,000,000 = 584,905.66

7.SQL value (from SQL table) = 1.3

**SQL Improve:**

1.Defect opportunities per unit:

D = 1

2.Units produced per timeframe:

U = 17

3.Total possible defects per timeframe:

D × U =17

4.Total actual defects in timeframe:

A =8

5.Defect-per-opportunity rate:

A ÷ DU = DPO =8/17= .4705

6.Defects per million opportunities (DPMO):

DPO × 1,000,000 = 470,588

7.SQL value (from SQL table) = 1.6