

```
data = {{1, 347}, {2, 264}, {3, 264}, {4, 308}, {5, 316}, {6, 264}, {7, 264}, {8, 376}, {9, 264},
{10, 264}, {11, 264}, {12, 470}, {13, 313}, {14, 264}, {15, 264}, {16, 316}, {17, 264}, {18, 264},
{19, 322}, {20, 264}, {21, 264}, {22, 264}, {23, 331}, {24, 264}, {25, 264}, {26, 264}, {27, 317},
{28, 264}, {29, 264}, {30, 264}, {31, 322}, {32, 264}, {33, 264}, {34, 363}, {35, 264}, {36, 264},
{37, 264}, {38, 387}, {39, 264}, {40, 264}, {41, 272}, {42, 342}, {43, 264}, {44, 264}, {45, 347},
{46, 264}, {47, 264}, {48, 264}, {49, 340}, {50, 264}};
```

```
lm = LinearModelFit[data, x, x];
```

```
Show[ListLinePlot[data, PlotStyle → Blue, PlotMarkers → {Automatic, 6}],
```

```
Plot[lm[x], {x, 0, 50}, PlotStyle → Red], AxesLabel → {"X - Time", "Y - PPG Analog Reading (0-1023)"},
```

```
PlotLabel → lm["BestFit"]]
```

