# Data

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *m(Kg)* | *r (m)* | t (20 revolutions) | | | *t̅* (s) | *T (s)* | *F (N)* | *v (m/s)* | *a (m/s*²*)* |
| Trial 1 | Trial 2 | Trial 3 |
| 0.05 | 0.185 | 6.62 | 6.67 | 6.87 | 6.72 | 0.34 | 0.491 | 3.46 | 11.96 |
| 0.1 | 0.185 | 5.79 | 5.68 | 5.6 | 5.69 | 0.28 | 0.982 | 4.08 | 16.68 |
| 0.15 | 0.185 | 5.28 | 5.01 | 5.39 | 5.23 | 0.26 | 1.473 | 4.45 | 19.76 |
| 0.2 | 0.185 | 4.46 | 4.87 | 4.59 | 4.64 | 0.23 | 1.964 | 5.01 | 25.08 |
| 0.25 | 0.185 | 3.5 | 3.69 | 3.7 | 3.63 | 0.18 | 2.455 | 6.40 | 40.97 |

# Conclusion

There is a positive correlation, but it’s too weak to give a conclusive result.