|  |  |  |
| --- | --- | --- |
| **m(Kg)** | **Force (9.8Xm)= (N)** | **a (m/s^2) AVG** |
| 0,02 | 0,20 | 0,647 |
| 0,05 | 0,49 | 1,53 |
| 0,10 | 0,98 | 2,633333333 |
| 0,15 | 1,47 | 3,71 |
| 0,20 | 1,96 | 4,296666667 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MASS** | **VALUE#1** | **VALUE#2** | **VALUE#3** | **AVG** |
| 0,02 | 0,668 | 0,64 | 0,633 | 0,647 |
| 0,05 | 1,49 | 1,6 | 1,5 | 1,53 |
| 0,1 | 2,75 | 2,57 | 2,58 | 2,633333 |
| 0,15 | 3,62 | 3,73 | 3,78 | 3,71 |
| 0,2 | 4,5 | 4,17 | 4,22 | 4,296667 |

The correlation between the force applied and the acceleration is high and linear.   
F = ma  
F/a= m  
m= mass of trolly (Kg)