1. **Please calculate the standard deviation, mean, and variance for the dataset below (round to the nearest 2 decimal places where applicable).**

|  |  |  |
| --- | --- | --- |
| **Men's 400 Meter Race** |  |  |
| **Athlete** | **Country** | **Time** |
| LaShawn Merritt  | USA  | 43.75 |
| Jeremy Wariner  | USA  | 44.74 |
| David Neville  | USA  | 44.80 |
| Chris Brown  | BAH  | 44.84 |
| Leslie Djhone  | FRA  | 45.11 |
| Martyn Rooney  | GBR  | 45.12 |
| Renny Quow  | TRI  | 45.22 |
| Johan Wissman  | SWE  | 45.39 |

**ANSWER**

**Mean:**

**Standard Deviation:**

**Variance:**

1. **Do the standard deviation, mean, and variance calculations (same as question #3 above) in a Microsoft Excel document, using Excel formulas, and send it as a separate attachment (or embed the Excel file below).**

|  |  |  |
| --- | --- | --- |
| **Men's 400 Meter Race** |  |  |
| **Athlete** | **Country** | **Time** |
| LaShawn Merritt  | USA  | 43.75 |
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| Johan Wissman  | SWE  | 45.39 |

**ANSWER**

1. **Describe a situation in which you could use z-scores to make better business process decisions (i.e. in the medical field, appointments, etc.)**

**ANSWER:**