1. A set of 50 data values has a mean of 15 and a variance of 25. Find the standard score of a data value = 30.
2. A research study of manual dexterity involved determining the time required to complete a task. The time required for each of 40 individuals with disabilities is shown here (data are ranked):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7.1 | 7.2 | 7.2 | 7.6 | 7.6 | 7.9 | 8.1 | 8.1 | 8.1 | 8.3 | 8.3 | 8.4 | 8.4 | 8.9 |
| 9.0 | 9.0 | 9.1 | 9.1 | 9.1 | 9.1 | 9.4 | 9.6 | 9.9 | 10.1 | 10.1 | 10.1 | 10.2 |  |
| 10.3 | 10.5 | 10.7 | 11.0 | 11.1 | 11.2 | 11.2 | 11.2 | 12.0 | 13.6 | 14.7 | 14.9 | 15.5 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

 Find *P*95.

Problem 1 My Answer

Standard Deviation is 5

30 is three standard deviations above the mean of 15(30=15+ 3 x5)

Standard score is 3.

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Problem 2 – I am unsure how to start it- need help