Day 2nd 25th June 2022

1. X= {24,25,26,27,28,90,100,1000,1200,1400,1400,1400}

Find Average(µ), Median and Mode

Average(µ)=24+25+26+27+28+90+100+1000+1200+1400+1400+1400

12

= 6720/12

Average(µ)= 560

Median= 90+100/2

= 95

Mode = 1400

1. X= {23, 21,20,19,24,27,28}

|  |  |  |  |
| --- | --- | --- | --- |
| x | X-bar | X-X-bar | (X-X-bar)² |
| 23 | 23.14 | -0.14 | 0.0196 |
| 21 | 23.14 | -2.14 | 4.5796 |
| 20 | 23.14 | -3.14 | 9.8596 |
| 19 | 23.14 | -4.14 | 17.1396 |
| 24 | 23.14 | 0.86 | 0.7396 |
| 27 | 23.14 | 3.86 | 14.8996 |
| 28 | 23.14 | 4.86 | 23.6196 |
| X-bar= 23.14 |  |  | 70.8572 |

*σ*2=*n*1​∑*i*=1 ​(*xi*​−*μ*)2/n-1

=70.8572/6

=11.80

**σ = √11.80**

**=3.43**