1. Sample: 32 32 35 36 37 38 38 39 39 39 40 40 42 45

|  |  |  |
| --- | --- | --- |
| x | error | error sqr |
| 32 | 6 | 36 |
| 32 | 6 | 36 |
| 35 | 3 | 9 |
| 36 | 2 | 4 |
| 37 | 1 | 1 |
| 38 | 0 | 0 |
| 38 | 0 | 0 |
| 39 | -1 | 1 |
| 39 | -1 | 1 |
| 39 | -1 | 1 |
| 40 | -2 | 4 |
| 40 | -2 | 4 |
| 42 | -4 | 16 |
| 45 | -7 | 49 |
| mean=38 |  | variance=11.57 |

Standard deviation = sqrt(variance)= 3.40147

2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x(NYSE) | Y(NASDAQ) | xy | x^2 | y^2 |
| 0.58 | 0.7 | 0.406 | 0.3364 | 0.49 |
| 0.01 | -0.79 | -0.0079 | 0.0001 | 0.6241 |
| 0.43 | 0.85 | 0.3655 | 0.1849 | 0.7225 |
| -0.14 | -0.16 | 0.0224 | 0.0196 | 0.0256 |
| -1.15 | -0.71 | 0.8165 | 1.3225 | 0.5041 |
| 0.15 | -0.02 | -0.003 | 0.0225 | 0.0004 |
| -1.23 | -1.1 | 1.353 | 1.5129 | 1.21 |
| -0.88 | -0.77 | 0.6776 | 0.7744 | 0.5929 |
| -1.26 | -0.78 | 0.9828 | 1.5876 | 0.6084 |
| 0.08 | -0.35 | -0.028 | 0.0064 | 0.1225 |
| Sum=-3.41 | Sum=-3.13 | XY= 4.5849 | Sum X2 =5.7673 | Sum Y2 =4.9005 |

rxy = 0.82