|  |  |  |  |
| --- | --- | --- | --- |
| Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | http://www.edhelper.com/edhelp1.gif | Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Standard Deviation**

**Calculating the Range, Variance, and Standard Deviation**

Calculate the values to the nearest tenth.

|  |
| --- |
|  |
| 1. | |  | 43, 1, 43, 84, 86, 28, 72, and 83. |
|  | |  | |  | | --- | | Write the range: \_\_\_\_\_\_\_\_\_ | |
|  | |  |  |
| 2. | |  | 55, 44, 21, 95, 42, 71, and 21. |
|  | |  | |  | | --- | | Write the range: \_\_\_\_\_\_\_\_\_ | |
|  | |  |  |
| 3. | |  | 24.6, 16.7, -0.9, 12.3, -5.2, 8.6, -26.5, 16.7, 8.3, and 21.7. |
|  | |  | |  | | --- | | Write the range: \_\_\_\_\_\_\_\_\_ | |
|  | |  |  |
| 4. | |  | 9.4, -11.5, -17.1, 35.3, -47, 38.5, -16.5, -5.4, -5.4, and 30.5. |
|  | |  | |  | | --- | | Write the range: \_\_\_\_\_\_\_\_\_ | |
|  | |  |  |
| 5. | |  | Given the following prices of used cars:   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | $38,900 | | $11,200 | | $11,000 | | $7,500 | | $14,500 | | |  | | --- | |  | |   . |
|  | |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Write the range: | \_\_\_\_\_\_\_\_\_ | Write the variance: | \_\_\_\_\_\_\_\_\_ | Write the standard deviation: | \_\_\_\_\_\_\_\_\_ | |
|  | |  |  |
| 6. | |  | Given the following:  25, 27, 146, 83, 118, 69, 152, 117, 113, and 49. |
|  | |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Write the range: | \_\_\_\_\_\_\_\_\_ | Write the variance: | \_\_\_\_\_\_\_\_\_ | Write the standard deviation: | \_\_\_\_\_\_\_\_\_ | |
|  | |  |  |
| 7. | |  | Given the following:  69.9, 137, 97, 55.1, 58, 172.1, 70.3, 169.5, 100.3, 122.2, 102.7, 133.9, 119.5, 39.1, 48.2, 159, 54.1, 25.2, 22.8, and 97.2. |
|  | |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Write the range: | \_\_\_\_\_\_\_\_\_ | Write the variance: | \_\_\_\_\_\_\_\_\_ | Write the standard deviation: | \_\_\_\_\_\_\_\_\_ | |
|  | |  |  |

|  |
| --- |
| 8. |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **52 Week High** | **52 Week Low** | **Stock** | **Dividend In Dollars** | **Close** | | $276.20 | $1.40 | GQB | $4.84 | $241.75 | | $175.75 | $41.24 | IXK | $0 | $143.56 | | $148.13 | $26.61 | XAS | $10.37 | $115.21 | | $83.80 | $53.71 | PIT | $2.12 | $70.83 | | $170.21 | $145.19 | MLF | $1.64 | $164.44 | | $26.85 | $9.13 | SZV | $1.83 | $18.29 | | $288.35 | $41.96 | GDZ | $2.30 | $45.92 | | $246.06 | $141.92 | HVC | $3.99 | $199.39 | | $6.29 | $2.20 | YFV | $0.19 | $3.82 | | $65.01 | $41.59 | UEV | $5.87 | $58.67 | |

Find the range, variance, and standard deviation for the closing prices of the given stocks..

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Write the range: | \_\_\_\_\_\_\_\_\_ | Write the variance: | \_\_\_\_\_\_\_\_\_ | Write the standard deviation: | \_\_\_\_\_\_\_\_\_ |

9. Given the following grades:  
84, 67, 78, 84, 92, 67, 50, 84, 84, 67, 67, 50, and 92.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Write the range: | \_\_\_\_\_\_\_\_\_ | Write the variance: | \_\_\_\_\_\_\_\_\_ | Write the standard deviation: | \_\_\_\_\_\_\_\_\_ |

10. Given the following annual mutual fund returns:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 13.65 | | 13.35 | | 12.27 | | 37.48 | | 23.42 | | |  | | --- | | 3.57 | | -42.59 | | 49.09 | | 6.12 | | -43.7 | | | |  | | --- | | 6.53 | | -44.02 | | 58.49 | | 11.96 | | 19.61 | | | |  | | --- | | 11.67 | | 31.61 | | 2.51 | | 19.35 | | 10.49 | | | |  | | --- | | -45.03 | | 24.66 | | 14.72 | | 15.65 | | 14.47 | | | |  | | --- | | 1.44 | | -40.95 | | 23.93 | | 16.13 | | 40.21 | | | |  | | --- | |  | |
| Write the range: | | \_\_\_\_\_\_\_\_\_ | | Write the variance: | | \_\_\_\_\_\_\_\_\_ | | Write the standard deviation: | | \_\_\_\_\_\_\_\_\_ | |

11. Given the following prices of used homes (in thousands):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 188.7 | | 134.4 | | 124.7 | | 83 | | 124.8 | | |  | | --- | | 176 | | 85.4 | | 191.1 | | 106.3 | | 71.6 | | | |  | | --- | | 129.2 | | 51 | | 172.2 | | 123.3 | | 100 | | | |  | | --- | | 116.9 | | 70.8 | | 128.3 | | 114.9 | | 87.7 | | | |  | | --- | | 147.5 | | 169.5 | | 116.4 | | 58.5 | | 133.4 | | | |  | | --- | | 118.3 | | 158.5 | | 62.4 | | 199.8 | | 76.6 | | | |  | | --- | |  | |
| Write the range: | | \_\_\_\_\_\_\_\_\_ | | Write the variance: | | \_\_\_\_\_\_\_\_\_ | | Write the standard deviation: | | \_\_\_\_\_\_\_\_\_ | |

12. Given the following:   
27.43, 141.76, 102.68, 88.42, 90.22, 25.39, 115.75, 105.86, 134.29, 27.26, 137.19, 52.42, 72.85, 84.8, 63.16, 27.33, 60.51, 78.53, 145.79, and 131.6.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Write the range: | \_\_\_\_\_\_\_\_\_ | Write the variance: | \_\_\_\_\_\_\_\_\_ | Write the standard deviation: | \_\_\_\_\_\_\_\_\_ |