|  |  |  |  |
| --- | --- | --- | --- |
| 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 WeekHigh** | **52 WeekLow** | **Stock** | **DividendIn 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: | \_\_\_\_\_\_\_\_\_ |