```
      s[x_] := Sqrt[(Length[x] / (Length[x] - 1)) (Mean[x^2] - Mean[x]^2)]

In[79]:= all[x_] := {Length[x], Mean[x], s[x], Mean[x] - .67 s[x] / Sqrt[Length[x]],
          Mean[x] + .67 s[x] / Sqrt[Length[x]], (Mean[x] - 4.5) / (s[x] / Sqrt[Length[x]])} 1.
```

even sections

```
In[80]:= all[{1, 1, 8, 4, 7, 1, 9, 1, 9}]

Out[80]= {9., 4.55556, 3.67801, 3.73413, 5.37698, 0.0453143}

In[81]:= all[{7, 7, 9, 8, 7, 7, 2, 8}]

Out[81]= {8., 6.875, 2.10017, 6.37751, 7.37249, 3.19856}

In[82]:= all[{4, 7, 3, 9, 9, 3, 6, 1, 0, 5, 8, 8, 0}]

Out[82]= {13., 4.84615, 3.28751, 4.23525, 5.45705, 0.379642}

In[83]:= all[{2, 8, 5, 0, 5, 8, 7, 7, 4, 0, 1, 0}]

Out[83]= {12., 3.91667, 3.20393, 3.29699, 4.53635, -0.630703}

In[84]:= all[{5, 8, 7, 8, 4, 1, 8, 4, 8, 0, 5, 4}]

Out[84]= {12., 5.16667, 2.75791, 4.63325, 5.70008, 0.837374}

In[85]:= all[{7, 4, 5, 0, 2, 5, 6}]

Out[85]= {7., 4.14286, 2.4103, 3.53248, 4.75323, -0.392031}

In[86]:= all[{4, 2, 6, 5, 7, 7, 9}]

Out[86]= {7., 5.71429, 2.28869, 5.13471, 6.29386, 1.40373}

In[87]:= all[{6, 5, 3, 4, 5, 1, 9, 6, 9, 8}]

Out[87]= {10., 5.6, 2.59058, 5.05113, 6.14887, 1.34275}

In[88]:= all[{8, 4, 9, 6, 3, 9, 1, 3, 9}]

Out[88]= {9., 5.77778, 3.11359, 5.08241, 6.47315, 1.23116}

In[89]:= all[{4, 8, 0, 1, 3, 6, 8, 3, 5, 4, 2}]

Out[89]= {11., 4., 2.60768, 3.47322, 4.52678, -0.635934}

In[91]:= all[{9, 3, 7, 6, 6, 5, 1, 0, 1, 5, 0, 9}]

Out[91]= {12., 4.33333, 3.28449, 3.69807, 4.96859, -0.175781}
```

odd sections

```
In[101]:=
      all[{8, 1, 4, 6, 4, 9, 6, 2, 9, 2, 8, 8}]

Out[101]=
      {12., 5.58333, 2.90637, 5.02121, 6.14546, 1.29123}
```

```
In[102]:=
        all[{1, 3, 5, 2, 6, 1, 5}]

Out[102]=
        {7., 3.28571, 2.05866, 2.76439, 3.80704, -1.56057}

In[103]:=
        all[{7, 5, 9, 0, 8, 2, 3, 4, 0, 1, 3}]

Out[103]=
        {11., 3.81818, 3.12468, 3.18696, 4.44941, -0.723701}

In[104]:=
        all[{5, 0, 5, 1, 5, 4, 4, 1, 3, 9, 8}]

Out[104]=
        {11., 4.09091, 2.80908, 3.52344, 4.65838, -0.483006}

In[105]:=
        all[{9, 8, 2, 6, 4, 0, 8, 9, 1}]

Out[105]=
        {9., 5.22222, 3.56293, 4.4265, 6.01794, 0.608114}

In[106]:=
        all[{4, 7, 3, 1, 0}]

Out[106]=
        {5., 3., 2.73861, 2.17942, 3.82058, -1.22474}

In[107]:=
        all[{6, 8, 7, 9, 6, 9, 0, 4, 0, 3}]

Out[107]=
        {10., 5.2, 3.35989, 4.48813, 5.91187, 0.658829}

In[108]:=
        all[{1, 6, 6, 8, 8, 9, 8, 7, 7, 4, 7}]

Out[108]=
        {11., 6.45455, 2.25227, 5.99956, 6.90953, 2.8782}

In[109]:=
        all[{9, 8, 8, 9, 0, 6, 7, 7, 1, 3, 1}]

Out[109]=
        {11., 5.36364, 3.44304, 4.6681, 6.05917, 0.831926}

In[110]:=
        all[{1, 6, 6, 1, 5, 9, 1, 9, 0, 0}]

Out[110]=
        {10., 3.8, 3.61478, 3.03413, 4.56587, -0.612372}

In[111]:=
        all[{6, 0, 7, 1, 4, 2, 8, 7, 1, 0}]

Out[111]=
        {10., 3.6, 3.1693, 2.92851, 4.27149, -0.898007}
```

```
In[112]:=
        all[{9, 2, 0, 8, 9, 6, 6, 6}]

Out[112]=
        {8., 5.75, 3.24037, 4.98242, 6.51758, 1.09109}

In[119]:=
        all[{9, 3, 5, 3, 5, 6, 9, 7, 4, 0, 1}]

Out[119]=
        {11., 4.72727, 2.93567, 4.13423, 5.32032, 0.256765}

In[127]:=
        zscores = {.045, 3.2, .37, -.63, .83, -.39, 1.4, 1.34, 1.23, -.64, -.18,
          1.29, -1.56, -.72, -.48, .61, -1.22, .66, 2.87, .83, -.61, -.9, 1.09, .257}

Out[127]=
        {0.045, 3.2, 0.37, -0.63, 0.83, -0.39, 1.4, 1.34, 1.23, -0.64, -0.18, 1.29,
         -1.56, -0.72, -0.48, 0.61, -1.22, 0.66, 2.87, 0.83, -0.61, -0.9, 1.09, 0.257}

In[128]:=
        Mean[zscores]

Out[128]=
        0.362167

In[129]:=
        s[zscores]

Out[129]=
        1.19208

In[130]:=
        Length[zscores]

Out[130]=
        24

In[124]:=
        11 / 24.

Out[124]=
        0.458333

In[131]:=
        (0.45833 - .5) / (.5 / Sqrt[24])

Out[131]=
        -0.408281
```