



Statistics - Standard Deviation - Values and Z-Table Section to Percent

Above/Below

<p>1</p> <p>Above/Below Find the percentage.</p> <p>A reaction time of 341.8 ms has mean 300 ms, SD 20 ms. What percentage of reaction times is above it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.07</th> <th>0.08</th> <th>0.09</th> </tr> </thead> <tbody> <tr> <td>1.8</td> <td>0.9693</td> <td>0.9699</td> <td>0.9706</td> </tr> <tr> <td>1.9</td> <td>0.9756</td> <td>0.9761</td> <td>0.9767</td> </tr> <tr> <td>2.0</td> <td>0.9808</td> <td>0.9812</td> <td>0.9817</td> </tr> </tbody> </table> <p>A 0.02% B 98.17%</p> <p>C 0.98% D 1.83%</p>	z	0.07	0.08	0.09	1.8	0.9693	0.9699	0.9706	1.9	0.9756	0.9761	0.9767	2.0	0.9808	0.9812	0.9817	<p>2</p> <p>Find the percentage.</p> <p>A exam mark of 108.1 has mean 100, SD 10. What percentage of exam marks is above it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.00</th> <th>0.01</th> <th>0.02</th> </tr> </thead> <tbody> <tr> <td>0.8</td> <td>0.7881</td> <td>0.7910</td> <td>0.7939</td> </tr> <tr> <td>0.9</td> <td>0.8159</td> <td>0.8186</td> <td>0.8212</td> </tr> <tr> <td>1.0</td> <td>0.8413</td> <td>0.8438</td> <td>0.8461</td> </tr> </tbody> </table> <p>A 0.21% B 0.79%</p> <p>C 20.90% D 79.10%</p>	z	0.00	0.01	0.02	0.8	0.7881	0.7910	0.7939	0.9	0.8159	0.8186	0.8212	1.0	0.8413	0.8438	0.8461
z	0.07	0.08	0.09																														
1.8	0.9693	0.9699	0.9706																														
1.9	0.9756	0.9761	0.9767																														
2.0	0.9808	0.9812	0.9817																														
z	0.00	0.01	0.02																														
0.8	0.7881	0.7910	0.7939																														
0.9	0.8159	0.8186	0.8212																														
1.0	0.8413	0.8438	0.8461																														
<p>3</p> <p>Find the percentage.</p> <p>A reaction time of 312.2 ms has mean 280 ms, SD 20 ms. What percentage of reaction times is below it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.00</th> <th>0.01</th> <th>0.02</th> </tr> </thead> <tbody> <tr> <td>1.6</td> <td>0.9452</td> <td>0.9463</td> <td>0.9474</td> </tr> <tr> <td>1.7</td> <td>0.9554</td> <td>0.9564</td> <td>0.9573</td> </tr> <tr> <td>1.8</td> <td>0.9641</td> <td>0.9649</td> <td>0.9656</td> </tr> </tbody> </table> <p>A 94.63% B 0.05%</p> <p>C 0.95% D 5.37%</p>	z	0.00	0.01	0.02	1.6	0.9452	0.9463	0.9474	1.7	0.9554	0.9564	0.9573	1.8	0.9641	0.9649	0.9656	<p>4</p> <p>Find the percentage.</p> <p>A test score of 78.3 has mean 75, SD 5. What percentage of test scores is above it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.04</th> <th>0.05</th> <th>0.06</th> </tr> </thead> <tbody> <tr> <td>0.6</td> <td>0.7389</td> <td>0.7422</td> <td>0.7454</td> </tr> <tr> <td>0.7</td> <td>0.7704</td> <td>0.7734</td> <td>0.7764</td> </tr> <tr> <td>0.8</td> <td>0.7995</td> <td>0.8023</td> <td>0.8051</td> </tr> </tbody> </table> <p>A 74.54% B 0.75%</p> <p>C 0.25% D 25.46%</p>	z	0.04	0.05	0.06	0.6	0.7389	0.7422	0.7454	0.7	0.7704	0.7734	0.7764	0.8	0.7995	0.8023	0.8051
z	0.00	0.01	0.02																														
1.6	0.9452	0.9463	0.9474																														
1.7	0.9554	0.9564	0.9573																														
1.8	0.9641	0.9649	0.9656																														
z	0.04	0.05	0.06																														
0.6	0.7389	0.7422	0.7454																														
0.7	0.7704	0.7734	0.7764																														
0.8	0.7995	0.8023	0.8051																														
<p>5</p> <p>Find the percentage.</p> <p>A test score of 74.5 has mean 72, SD 5. What percentage of test scores is above it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.00</th> <th>0.01</th> <th>0.02</th> </tr> </thead> <tbody> <tr> <td>0.3</td> <td>0.6179</td> <td>0.6217</td> <td>0.6255</td> </tr> <tr> <td>0.4</td> <td>0.6554</td> <td>0.6591</td> <td>0.6628</td> </tr> <tr> <td>0.5</td> <td>0.6915</td> <td>0.6950</td> <td>0.6985</td> </tr> </tbody> </table> <p>A 0.31% B 0.69%</p> <p>C 30.85% D 69.15%</p>	z	0.00	0.01	0.02	0.3	0.6179	0.6217	0.6255	0.4	0.6554	0.6591	0.6628	0.5	0.6915	0.6950	0.6985	<p>6</p> <p>Find the percentage.</p> <p>A test score of 94.6 has mean 75, SD 10. What percentage of test scores is below it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.04</th> <th>0.05</th> <th>0.06</th> </tr> </thead> <tbody> <tr> <td>1.9</td> <td>0.9738</td> <td>0.9744</td> <td>0.9750</td> </tr> <tr> <td>2.0</td> <td>0.9793</td> <td>0.9798</td> <td>0.9803</td> </tr> <tr> <td>2.1</td> <td>0.9838</td> <td>0.9842</td> <td>0.9846</td> </tr> </tbody> </table> <p>A 0.98% B 97.50%</p> <p>C 0.02% D 2.50%</p>	z	0.04	0.05	0.06	1.9	0.9738	0.9744	0.9750	2.0	0.9793	0.9798	0.9803	2.1	0.9838	0.9842	0.9846
z	0.00	0.01	0.02																														
0.3	0.6179	0.6217	0.6255																														
0.4	0.6554	0.6591	0.6628																														
0.5	0.6915	0.6950	0.6985																														
z	0.04	0.05	0.06																														
1.9	0.9738	0.9744	0.9750																														
2.0	0.9793	0.9798	0.9803																														
2.1	0.9838	0.9842	0.9846																														
<p>7</p> <p>Find the percentage.</p> <p>A test score of 82 has mean 72, SD 10. What percentage of test scores is below it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.00</th> <th>0.01</th> <th>0.02</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>0.8413</td> <td>0.8438</td> <td>0.8461</td> </tr> <tr> <td>1.1</td> <td>0.8643</td> <td>0.8665</td> <td>0.8686</td> </tr> <tr> <td>1.2</td> <td>0.8849</td> <td>0.8869</td> <td>0.8888</td> </tr> </tbody> </table> <p>A 84.13% B 0.16%</p> <p>C 15.87% D 0.84%</p>	z	0.00	0.01	0.02	1.0	0.8413	0.8438	0.8461	1.1	0.8643	0.8665	0.8686	1.2	0.8849	0.8869	0.8888	<p>8</p> <p>Find the percentage.</p> <p>A exam mark of 118.4 has mean 100, SD 10. What percentage of exam marks is above it?</p> <table border="1"> <thead> <tr> <th>z</th> <th>0.03</th> <th>0.04</th> <th>0.05</th> </tr> </thead> <tbody> <tr> <td>1.8</td> <td>0.9664</td> <td>0.9671</td> <td>0.9678</td> </tr> <tr> <td>1.9</td> <td>0.9732</td> <td>0.9738</td> <td>0.9744</td> </tr> <tr> <td>2.0</td> <td>0.9788</td> <td>0.9793</td> <td>0.9798</td> </tr> </tbody> </table> <p>A 0.97% B 0.03%</p> <p>C 96.71% D 3.29%</p>	z	0.03	0.04	0.05	1.8	0.9664	0.9671	0.9678	1.9	0.9732	0.9738	0.9744	2.0	0.9788	0.9793	0.9798
z	0.00	0.01	0.02																														
1.0	0.8413	0.8438	0.8461																														
1.1	0.8643	0.8665	0.8686																														
1.2	0.8849	0.8869	0.8888																														
z	0.03	0.04	0.05																														
1.8	0.9664	0.9671	0.9678																														
1.9	0.9732	0.9738	0.9744																														
2.0	0.9788	0.9793	0.9798																														