Test Bank

Z-table

1 If you belong to a normally distributed population with a mean height of 160 cm and a standard deviation of 10 cm. What is the probability that your height is 160 cm or shorter?

a. 50%

b. 68%

C. Cannot be determined

d. 100%

e. 99. 7%

2. The women's Hemoglobin level in Jordan is normally distributed, with a mean of 13. 75 g/dl and a standard deviation of 1 g/dl. If a woman with a Hemoglobin level of 11. 99 g/dl or less is considered anemic, what is the percentage of anemic women in Jordan?

a. . 4%

b. . 039%

C. 39. 2%

d. 3. 92%

e. 04%

z	.00	.01	.02	.03	.04	.05	.06	.07	.08
−3.4	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003
−3.3	.0005	.0005	.0005	.0004	.0004	.0004	.0004	.0004	.0004
−3.2	.0007	.0007	.0006	.0006	.0006	.0006	.0006	.0005	.0005
−3.1	.0010	.0009	.0009	.0009	.0008	.0008	.0008	.0008	.0007
−3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010
−2.9	.0019	.0018	.0018	.0017	.0016	.0016	.0015	.0015	.0014
−2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020
−2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027
−2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037
−2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049
−2.4	.0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066
−2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087
−2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113
−2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146
−2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188
−1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239
−1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301
−1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375
−1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465
−1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571
−1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694
−1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838
−1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003
−1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190
−1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401

3The men's Body Mass Index (BMI) in Jordan is normally distributed with a mean of 22. 8 and a standard deviation of 4. If a man is considered overweight if his BMI is between 25 –30, what is the probability of randomly picking an overweight Jordanian man? Use the section of Z–Table below.

a. 25. 53%

b. 2. 553%

c. . 2553%

d. 56. 89%

e. 5. 689%

:	.00	.01	.02	.03	.04	.05	.06	.07	.08
0.0	.5000	.5040	.5080	.5120	.5160	.5199	.5239	.5279	.5319
0.1	.5398	.5438	.5478	.5517	.5557	.5596	.5636	.5675	.5714
0.2	.5793	.5832	.5871	.5910	.5948	.5987	.6026	.6064	.6103
0.3	.6179	.6217	.6255	.6293	.6331	.6368	.6406	.6443	.6480
0.4	.6554	.6591	.6628	.6664	.6700	.6736	.6772	.6808	.6844
0.5	.6915	.6950	.6985	.7019	.7054	.7088	.7123	.7157	.7190
0.6	.7257	.7291	.7324	.7357	.7389	.7422	.7454	.7486	.7517
0.7	.7580	.7611	.7642	.7673	.7704	.7734	.7764	.7794	.7823
0.8	.7881	.7910	.7939	.7967	.7995	.8023	.8051	.8078	.8106
0.9	.8159	.8186	.8212	.8238	.8264	.8289	.8315	.8340	.8365
1.0	.8413	.8438	.8461	.8485	.8508	.8531	.8554	.8577	.8599
1.1	.8643	.8665	.8686	.8708	.8729	.8749	.8770	.8790	.8810
1.2	.8849	.8869	.8888	.8907	.8925	.8944	.8962	.8980	.8997
1.3	.9032	.9049	.9066	.9082	.9099	.9115	.9131	.9147	.9162
1.4	.9192	.9207	.9222	.9236	.9251	.9265	.9279	.9292	.9306
1.5	.9332	.9345	.9357	.9370	.9382	.9394	.9406	.9418	.9429
1.6	.9452	.9463	.9474	.9484	.9495	.9505	.9515	.9525	.9535
1.7	.9554	.9564	.9573	.9582	.9591	.9599	.9608	.9616	.9625
1.8	.9641	.9649	.9656	.9664	.9671	.9678	.9686	.9693	.9699
1.9	.9713	.9719	.9726	.9732	.9738	.9744	.9750	.9756	.9761
2.0	.9772	.9778	.9783	.9788	.9793	.9798	.9803	.9808	.9812

4. Which of the following statements is correct regarding variance?
a. It is one of the measures of location.
b. It is used in the calculation of standard error in some inferential statistical tests.
c. It is the square root of standard deviation.
d. It appears in the 5–number summary.
e. It is easily influenced by extreme values.

5. In a normally-distributed population,_____% of values are located between 2.5 standard deviations away from the mean in either side?

a. 95

b. 99

c. 99.7

d. 68

e. 99.9

6. A researcher provided her sample results regarding family monthly income in the form of a 5-number summary as follows: [JD 275, JD 375, JD 475, JD 675, JD 1225]. The results of this sample can be described as?

a. Standardized
b. Symmetric
C. Normally distributed
d. Skewed to the left.
e. Skewed to the right.

Answers

1. A
2. D
3. A
4. E
5. B
6. E

Good luck

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