



臺中健康暨管理學院
九十三年年度碩士班招生考試試題紙

公告用

系所別	組別	考試科目	考試日期	時間	備註
國際企業學系碩士班	乙	統計學	93.5.3	13:30-15:10	共四頁

一、單選題 (每題 3 分, 共 30 分)

- The measure of dispersion which is not measured in the same units as the original data is the
a. median
b. standard deviation
c. coefficient of determination
d. variance
- Stratified random sampling is a method of selecting a sample in which
a. the sample is first divided into strata, and then random samples are taken from each stratum
b. various strata are selected from the sample
c. the population is first divided into strata, and then random samples are drawn from each stratum
d. None of these alternatives is correct.
- The level of significance in hypothesis testing is the probability of
a. accepting a true null hypothesis
b. accepting a false null hypothesis
c. rejecting a true null hypothesis
d. None of these alternatives is correct.
- Application of the least squares method results in values of the y intercept and the slope which minimizes the sum of the squared deviations between the
a. observed values of the independent variable and the estimated values of the independent variable
b. actual values of the independent variable and estimated values of the dependent variable
c. observed values of the dependent variable and the estimated values of the dependent variable
d. None of these alternatives is correct.
- If a data set has $SST = 2,000$ and $SSE = 800$, then the coefficient of determination is
a. 0.4
b. 0.6
c. 0.5
d. 0.8
- The variance of a population is known to be 400. At 95% confidence, the margin of error will be
a. 39.2 or less
b. 3.92 or less
c. 3.29 or less
d. 78.4 or less
- As the number of degrees of freedom for a t distribution increases, the difference between the t distribution and the standard normal distribution
a. becomes larger
b. becomes smaller
c. stays the same
d. None of these alternatives is correct.
- The point estimator with the smaller variance is said to have
a. smaller relative efficiency
b. greater relative efficiency
c. smaller relative consistency
d. greater relative consistency
- If two events are independent, then
a. they must be mutually exclusive
b. the sum of their probabilities must be equal to one
c. their intersection must be zero
d. None of these alternatives is correct.
- Events A and B are mutually exclusive. Which of the following statements is also true?
a. A and B are also independent.
b. $P(A \cup B) = P(A)P(B)$
c. $P(A \cup B) = P(A) + P(B)$
d. $P(A \cap B) = P(A) + P(B)$



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二、計算題 (共 70 分)

- (15%) There are 500 employees in a firm, 45% are female. A sample of 60 employees is selected randomly.
 - Determine the standard error of the proportion. (5%)
 - What is the probability that the sample proportion (proportion of females) is between 0.40 and 0.50? (10%)
- (20%) A school administrator believes that there is no difference in the student dropout rate for schools located in his district and schools located in another district. A random sample of 25 schools in the administrator's district was taken. The student dropout rate of the schools in the sample was 24%. A random sample of 30 schools in the other district had a dropout rate of 27%.
 - Construct a 95% confidence interval for the difference between the population proportions for the two districts. (10%)
 - Test the hypothesis stated in Part d at the 1% significance level. What do you conclude? (10%)
- (15%) Halls, Inc. has three stores located in three different areas. Random samples of the sales of the three stores (In \$1,000) are shown below.

Store 1	Store 2	Store 3
46	34	33
47	36	31
45	35	35
42	39	
45		

- Show the complete ANOVA table for this problem. (10%)
 - At 95% confidence, test to see if there is a significant difference in the average sales of the three stores. (5%)
- (20%) A carpet company advertises that it will deliver your carpet within 15 days of purchase. A sample of 49 past customers is taken. The average delivery time in the sample was 16.2 days with a standard deviation of 5.6 days.
 - State the null and alternative hypotheses and test the null hypothesis at the 5% level of significance. (10%)
 - Compute the probability of a Type II error if the true average delivery time is 17 days after purchase. (10%)

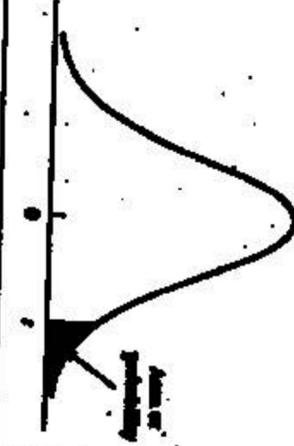
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NORMAL DISTRIBUTION

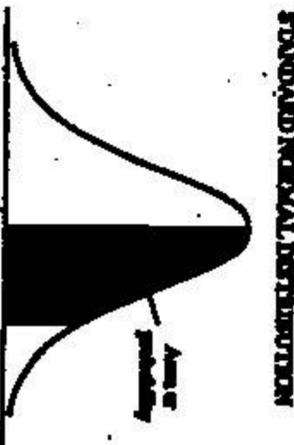


Area of probability

Area to the right of z under the normal distribution. For example, with 10 degrees of freedom and a 25 area to the right, $t_{.25}$ is 1.812.

Area to the right of z	z	Area to the right of z	z	Area to the right of z	z
0.4975	0.00	0.4975	0.00	0.4975	0.00
0.4980	0.01	0.4980	0.01	0.4980	0.01
0.4985	0.02	0.4985	0.02	0.4985	0.02
0.4990	0.03	0.4990	0.03	0.4990	0.03
0.4995	0.04	0.4995	0.04	0.4995	0.04
0.5000	0.05	0.5000	0.05	0.5000	0.05
0.5005	0.06	0.5005	0.06	0.5005	0.06
0.5010	0.07	0.5010	0.07	0.5010	0.07
0.5015	0.08	0.5015	0.08	0.5015	0.08
0.5020	0.09	0.5020	0.09	0.5020	0.09
0.5025	0.10	0.5025	0.10	0.5025	0.10
0.5030	0.11	0.5030	0.11	0.5030	0.11
0.5035	0.12	0.5035	0.12	0.5035	0.12
0.5040	0.13	0.5040	0.13	0.5040	0.13
0.5045	0.14	0.5045	0.14	0.5045	0.14
0.5050	0.15	0.5050	0.15	0.5050	0.15
0.5055	0.16	0.5055	0.16	0.5055	0.16
0.5060	0.17	0.5060	0.17	0.5060	0.17
0.5065	0.18	0.5065	0.18	0.5065	0.18
0.5070	0.19	0.5070	0.19	0.5070	0.19
0.5075	0.20	0.5075	0.20	0.5075	0.20
0.5080	0.21	0.5080	0.21	0.5080	0.21
0.5085	0.22	0.5085	0.22	0.5085	0.22
0.5090	0.23	0.5090	0.23	0.5090	0.23
0.5095	0.24	0.5095	0.24	0.5095	0.24
0.5100	0.25	0.5100	0.25	0.5100	0.25
0.5105	0.26	0.5105	0.26	0.5105	0.26
0.5110	0.27	0.5110	0.27	0.5110	0.27
0.5115	0.28	0.5115	0.28	0.5115	0.28
0.5120	0.29	0.5120	0.29	0.5120	0.29
0.5125	0.30	0.5125	0.30	0.5125	0.30
0.5130	0.31	0.5130	0.31	0.5130	0.31
0.5135	0.32	0.5135	0.32	0.5135	0.32
0.5140	0.33	0.5140	0.33	0.5140	0.33
0.5145	0.34	0.5145	0.34	0.5145	0.34
0.5150	0.35	0.5150	0.35	0.5150	0.35
0.5155	0.36	0.5155	0.36	0.5155	0.36
0.5160	0.37	0.5160	0.37	0.5160	0.37
0.5165	0.38	0.5165	0.38	0.5165	0.38
0.5170	0.39	0.5170	0.39	0.5170	0.39
0.5175	0.40	0.5175	0.40	0.5175	0.40
0.5180	0.41	0.5180	0.41	0.5180	0.41
0.5185	0.42	0.5185	0.42	0.5185	0.42
0.5190	0.43	0.5190	0.43	0.5190	0.43
0.5195	0.44	0.5195	0.44	0.5195	0.44
0.5200	0.45	0.5200	0.45	0.5200	0.45
0.5205	0.46	0.5205	0.46	0.5205	0.46
0.5210	0.47	0.5210	0.47	0.5210	0.47
0.5215	0.48	0.5215	0.48	0.5215	0.48
0.5220	0.49	0.5220	0.49	0.5220	0.49
0.5225	0.50	0.5225	0.50	0.5225	0.50
0.5230	0.51	0.5230	0.51	0.5230	0.51
0.5235	0.52	0.5235	0.52	0.5235	0.52
0.5240	0.53	0.5240	0.53	0.5240	0.53
0.5245	0.54	0.5245	0.54	0.5245	0.54
0.5250	0.55	0.5250	0.55	0.5250	0.55
0.5255	0.56	0.5255	0.56	0.5255	0.56
0.5260	0.57	0.5260	0.57	0.5260	0.57
0.5265	0.58	0.5265	0.58	0.5265	0.58
0.5270	0.59	0.5270	0.59	0.5270	0.59
0.5275	0.60	0.5275	0.60	0.5275	0.60
0.5280	0.61	0.5280	0.61	0.5280	0.61
0.5285	0.62	0.5285	0.62	0.5285	0.62
0.5290	0.63	0.5290	0.63	0.5290	0.63
0.5295	0.64	0.5295	0.64	0.5295	0.64
0.5300	0.65	0.5300	0.65	0.5300	0.65
0.5305	0.66	0.5305	0.66	0.5305	0.66
0.5310	0.67	0.5310	0.67	0.5310	0.67
0.5315	0.68	0.5315	0.68	0.5315	0.68
0.5320	0.69	0.5320	0.69	0.5320	0.69
0.5325	0.70	0.5325	0.70	0.5325	0.70
0.5330	0.71	0.5330	0.71	0.5330	0.71
0.5335	0.72	0.5335	0.72	0.5335	0.72
0.5340	0.73	0.5340	0.73	0.5340	0.73
0.5345	0.74	0.5345	0.74	0.5345	0.74
0.5350	0.75	0.5350	0.75	0.5350	0.75
0.5355	0.76	0.5355	0.76	0.5355	0.76
0.5360	0.77	0.5360	0.77	0.5360	0.77
0.5365	0.78	0.5365	0.78	0.5365	0.78
0.5370	0.79	0.5370	0.79	0.5370	0.79
0.5375	0.80	0.5375	0.80	0.5375	0.80
0.5380	0.81	0.5380	0.81	0.5380	0.81
0.5385	0.82	0.5385	0.82	0.5385	0.82
0.5390	0.83	0.5390	0.83	0.5390	0.83
0.5395	0.84	0.5395	0.84	0.5395	0.84
0.5400	0.85	0.5400	0.85	0.5400	0.85
0.5405	0.86	0.5405	0.86	0.5405	0.86
0.5410	0.87	0.5410	0.87	0.5410	0.87
0.5415	0.88	0.5415	0.88	0.5415	0.88
0.5420	0.89	0.5420	0.89	0.5420	0.89
0.5425	0.90	0.5425	0.90	0.5425	0.90
0.5430	0.91	0.5430	0.91	0.5430	0.91
0.5435	0.92	0.5435	0.92	0.5435	0.92
0.5440	0.93	0.5440	0.93	0.5440	0.93
0.5445	0.94	0.5445	0.94	0.5445	0.94
0.5450	0.95	0.5450	0.95	0.5450	0.95
0.5455	0.96	0.5455	0.96	0.5455	0.96
0.5460	0.97	0.5460	0.97	0.5460	0.97
0.5465	0.98	0.5465	0.98	0.5465	0.98
0.5470	0.99	0.5470	0.99	0.5470	0.99
0.5475	1.00	0.5475	1.00	0.5475	1.00

STANDARD NORMAL DISTRIBUTION



Area of probability

Area to the left of z under the normal distribution. For example, for $z = 1.25$ the area under the curve between the mean and z is 0.244.

Area to the left of z	z	Area to the left of z	z	Area to the left of z	z
0.5000	0.00	0.5000	0.00	0.5000	0.00
0.5040	0.01	0.5040	0.01	0.5040	0.01
0.5080	0.02	0.5080	0.02	0.5080	0.02
0.5120	0.03	0.5120	0.03	0.5120	0.03
0.5160	0.04	0.5160	0.04	0.5160	0.04
0.5199	0.05	0.5199	0.05	0.5199	0.05
0.5239	0.06	0.5239	0.06	0.5239	0.06
0.5279	0.07	0.5279	0.07	0.5279	0.07
0.5319	0.08	0.5319	0.08	0.5319	0.08
0.5359	0.09	0.5359	0.09	0.5359	0.09
0.5399	0.10	0.5399	0.10	0.5399	0.10
0.5439	0.11	0.5439	0.11	0.5439	0.11
0.5479	0.12	0.5479	0.12	0.5479	0.12
0.5519	0.13	0.5519	0.13	0.5519	0.13
0.5559	0.14	0.5559	0.14	0.5559	0.14
0.5599	0.15	0.5599	0.15	0.5599	0.15
0.5639	0.16	0.5639	0.16	0.5639	0.16
0.5679	0.17	0.5679	0.17	0.5679	0.17
0.5719	0.18	0.5719	0.18	0.5719	0.18
0.5759	0.19	0.5759	0.19	0.5759	0.19
0.5799	0.20	0.5799	0.20	0.5799	0.20
0.5839	0.21	0.5839	0.21	0.5839	0.21
0.5879	0.22	0.5879	0.22	0.5879	0.22
0.5919	0.23	0.5919	0.23	0.5919	0.23
0.5959	0.24	0.5959	0.24	0.5959	0.24
0.5999	0.25	0.5999	0.25	0.5999	0.25
0.6039	0.26	0.6039	0.26	0.6039	0.26
0.6079	0.27	0.6079	0.27	0.6079	0.27
0.6119	0.28	0.6119	0.28	0.6119	0.28
0.6159	0.29	0.6159	0.29	0.6159	0.29
0.6199	0.30	0.6199	0.30	0.6199	0.30
0.6239	0.31	0.6239	0.31	0.6239	0.31
0.6279	0.32	0.6279	0.32	0.6279	0.32
0.6319	0.33	0.6319	0.33	0.6319	0.33
0.6359	0.34	0.6359	0.34	0.6359	0.34
0.6399	0.35	0.6399	0.35	0.6399	0.35
0.6439	0.36	0.6439	0.36	0.6439	0.36
0.6479	0.37	0.6479	0.37	0.6479	0.37
0.6519	0.38	0.6519	0.38	0.6519	0.38
0.6559	0.39	0.6559	0.39	0.6559	0.39
0.6599	0.40	0.6599	0.40	0.6599	0.40
0.6639	0.41	0.6639	0.41	0.6639	0.41
0.6679	0.42	0.6679	0.42	0.6679	0.42
0.6719	0.43	0.6719	0.43	0.6719	0.43
0.6759	0.44	0.6759	0.44	0.6759	0.44
0.6799	0.45	0.6799	0.45	0.6799	0.45
0.6839	0.46	0.6839	0.46	0.6839	0.46
0.6879	0.47	0.6879	0.47	0.6879	0.47
0.6919	0.48	0.6919	0.48	0.6919	0.48
0.6959	0.49	0.6959	0.49	0.6959	0.49
0.6999	0.50	0.6999	0.50	0.6999	0.50
0.7039	0.51	0.7039	0.51	0.7039	0.51
0.7079	0.52	0.7079	0.52	0.7079	0.52
0.7119	0.53	0.7119	0.53	0.7119	0.53
0.7159	0.54	0.7159	0.54	0.7159	0.54
0.7199	0.55	0.7199	0.55	0.7199	0.55
0.7239	0.56	0.7239	0.56	0.7239	0.56
0.7279	0.57	0.7279	0.57	0.7279	0.57
0.7319	0.58	0.7319	0.58	0.7319	0.58
0.7359	0.59	0.7359	0.59	0.7359	0.59
0.7399	0.60	0.7399	0.60	0.7399	0.60
0.7439	0.61	0.7439	0.61	0.7439	0.61
0.7479	0.62	0.7479	0.62	0.7479	0.62
0.7519	0.63	0.7519	0.63	0.7519	0.63
0.7559	0.64	0.7559	0.64	0.7559	0.64
0.7599	0.65	0.7599	0.65	0.7599	0.65
0.7639	0.66	0.7639	0.66	0.7639	0.66
0.7679	0.67	0.7679	0.67	0.7679	0.67
0.7719	0.68	0.7719	0.68	0.7719	0.68
0.7759	0.69	0.7759	0.69	0.7759	0.69
0.7799	0.70	0.7799	0.70	0.7799	0.70
0.7839	0.71	0.7839	0.71	0.7839	0.71
0.7879	0.72	0.7879	0.72	0.7879	0.72
0.7919	0.73	0.7919	0.73	0.7919	0.73
0.7959	0.74	0.7959	0.74	0.7959	0.74
0.7999	0.75	0.7999	0.75	0.7999	0.75
0.8039	0.76	0.80			

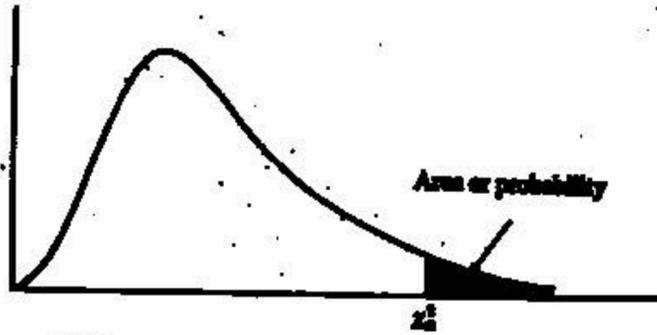


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Entries in the table give χ^2_c values, where c is the area or probability in the upper tail of the chi-square distribution. For example, with 10 degrees of freedom and 0.01 area in the upper tail, $\chi^2_{0.01} = 23.2093$.

Degrees of Freedom	Area in Upper Tail									
	.995	.99	.975	.95	.90	.80	.70	.60	.50	.40
20	7.43386	8.26980	9.59083	10.2968	12.4426	20.4129	21.4846	24.1668	27.2036	30.9823
21	8.03346	8.87280	10.20309	11.3913	13.2806	20.6151	21.6785	24.3489	27.3768	31.2021
22	8.64272	9.54240	10.8823	12.3369	14.0415	20.8133	21.8744	24.5457	27.5824	31.4089
23	9.26043	10.19367	11.6085	13.0905	14.8479	21.0609	22.1725	24.7537	27.7964	31.6131
24	9.89823	10.8264	12.3811	13.9404	15.6987	21.3603	22.5451	24.9741	28.0189	31.8253
25	10.5597	11.5340	13.1997	14.8114	16.6034	21.7116	22.9925	25.2075	28.2475	32.0469
26	11.2483	12.1981	13.9439	15.7091	17.5719	22.1171	23.4982	25.4659	28.4891	32.2773
27	11.9676	12.8706	14.6723	16.6453	18.6053	22.5781	24.0635	25.7443	28.7447	32.5169
28	12.7113	13.5648	15.3879	17.6279	19.7159	23.0951	24.6971	26.0347	29.0143	32.7651
29	13.4821	14.2865	16.1671	18.6513	20.9077	23.6881	25.3911	26.3281	29.2979	33.0213
30	14.2937	15.0335	16.9801	19.7226	22.1853	24.3491	26.1451	26.6347	29.5959	33.2851
40	20.7085	22.1643	24.4331	26.5085	29.2885	31.5069	32.5785	34.1701	36.4151	40.6469
50	27.9907	28.7087	32.374	34.7642	37.6896	39.1971	40.7842	43.1543	45.9873	48.7569
60	35.5346	37.4848	40.4817	43.1879	46.4589	47.4079	49.6619	52.2776	55.3394	58.5717
70	43.2732	45.4418	48.7576	51.7868	55.3389	55.3371	58.5312	61.6781	64.6723	67.7823
80	51.1728	53.5489	57.1332	60.3915	64.2778	64.2778	67.5782	70.6229	73.6229	76.6823
90	59.1968	61.7541	65.6466	69.1389	73.3012	73.3012	76.6823	79.6229	82.5781	85.5312
100	67.3276	70.0648	74.2219	77.905	82.3581	82.3581	85.5312	88.5781	91.5781	94.5312

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Table A-4 Percentiles of the F distribution (continued)

Upper 5% point of the F distribution	DEGREES OF FREEDOM FOR NUMERATOR																			
	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞	
1	161.4	199.5	215.7	224.6	230.2	234.8	238.6	241.9	244.9	247.6	250.0	252.0	253.8	255.4	256.9	258.2	259.4	260.5	261.5	262.5
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40	19.41	19.42	19.43	19.44	19.45	19.46	19.47	19.48	19.49	19.50
3	16.13	16.36	16.46	16.52	16.56	16.59	16.61	16.62	16.63	16.64	16.65	16.66	16.67	16.68	16.69	16.70	16.71	16.72	16.73	16.74
4	14.77	14.94	15.02	15.08	15.12	15.15	15.17	15.19	15.20	15.21	15.22	15.23	15.24	15.25	15.26	15.27	15.28	15.29	15.30	15.31
5	13.95	14.14	14.21	14.26	14.30	14.33	14.35	14.37	14.38	14.39	14.40	14.41	14.42	14.43	14.44	14.45	14.46	14.47	14.48	14.49
6	13.45	13.66	13.72	13.76	13.80	13.83	13.85	13.87	13.88	13.89	13.90	13.91	13.92	13.93	13.94	13.95	13.96	13.97	13.98	13.99
7	13.10	13.33	13.39	13.43	13.46	13.49	13.51	13.52	13.53	13.54	13.55	13.56	13.57	13.58	13.59	13.60	13.61	13.62	13.63	13.64
8	12.85	13.10	13.16	13.20	13.23	13.26	13.28	13.29	13.30	13.31	13.32	13.33	13.34	13.35	13.36	13.37	13.38	13.39	13.40	13.41
9	12.67	12.93	12.99	13.03	13.06	13.09	13.11	13.12	13.13	13.14	13.15	13.16	13.17	13.18	13.19	13.20	13.21	13.22	13.23	13.24
10	12.54	12.81	12.87	12.91	12.94	12.97	12.99	13.00	13.01	13.02	13.03	13.04	13.05	13.06	13.07	13.08	13.09	13.10	13.11	13.12
11	12.44	12.72	12.78	12.82	12.85	12.88	12.90	12.91	12.92	12.93	12.94	12.95	12.96	12.97	12.98	12.99	13.00	13.01	13.02	13.03
12	12.36	12.65	12.71	12.75	12.78	12.81	12.83	12.84	12.85	12.86	12.87	12.88	12.89	12.90	12.91	12.92	12.93	12.94	12.95	12.96
13	12.30	12.60	12.66	12.70	12.73	12.76	12.78	12.79	12.80	12.81	12.82	12.83	12.84	12.85	12.86	12.87	12.88	12.89	12.90	12.91
14	12.25	12.56	12.62	12.66	12.69	12.72	12.74	12.75	12.76	12.77	12.78	12.79	12.80	12.81	12.82	12.83	12.84	12.85	12.86	12.87
15	12.21	12.53	12.59	12.63	12.66	12.69	12.71	12.72	12.73	12.74	12.75	12.76	12.77	12.78	12.79	12.80	12.81	12.82	12.83	12.84
16	12.18	12.51	12.57	12.61	12.64	12.67	12.69	12.70	12.71	12.72	12.73	12.74	12.75	12.76	12.77	12.78	12.79	12.80	12.81	12.82
17	12.15	12.49	12.55	12.59	12.62	12.65	12.67	12.68	12.69	12.70	12.71	12.72	12.73	12.74	12.75	12.76	12.77	12.78	12.79	12.80
18	12.13	12.47	12.53	12.57	12.60	12.63	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72	12.73	12.74	12.75	12.76	12.77	12.78
19	12.11	12.45	12.51	12.55	12.58	12.61	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72	12.73	12.74	12.75	12.76
20	12.10	12.44	12.50	12.54	12.57	12.60	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72	12.73	12.74	12.75
21	12.09	12.43	12.49	12.53	12.56	12.59	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72	12.73	12.74
22	12.08	12.42	12.48	12.52	12.55	12.58	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72	12.73
23	12.07	12.41	12.47	12.51	12.54	12.57	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72
24	12.06	12.40	12.46	12.50	12.53	12.56	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71
25	12.05	12.39	12.45	12.49	12.52	12.55	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70
26	12.04	12.38	12.44	12.48	12.51	12.54	12.56	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69
27	12.03	12.37	12.43	12.47	12.50	12.53	12.55	12.56	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68
28	12.02	12.36	12.42	12.46	12.49	12.52	12.54	12.55	12.56	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67
29	12.01	12.35	12.41	12.45	12.48	12.51	12.53	12.54	12.55	12.56	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66
30	12.00	12.34	12.40	12.44	12.47	12.50	12.52	12.53	12.54	12.55	12.56	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65