國立成功大學104學年度碩士班招生考試試題

系所組別: 資源工程學系丙組

考試科目:統計學

考試日期:0211, 節次:3

第/頁,共/0頁

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選擇題(共25題,單選題,每題4分)

Exhibit AA

n = 36

 $\bar{x} = 24.6$

S = 12

 H_0 : $\mu \leq 20$

H_a: $\mu > 20$

Refer to Exhibit AA. The standardized test statistic equals

a. 2.3

b. 0.38

c. -2.3

d. -0.38

For a one-tailed hypothesis test (upper tail) the p-value is computed to be 2. 0.034. If the test is being conducted at 95% confidence, the null hypothesis

a. could be rejected or not rejected depending on the sample size

b. could be rejected or not rejected depending on the value of the mean of the sample

c. is not rejected

d. is rejected

To construct an interval estimate for the difference between the means of two 3. populations which are normally distributed and have equal variances, we must use a t distribution with (let n_1 be the size of sample 1 and n_2 the size of sample 2)

a. $(n_1 + n_2)$ degrees of freedom

b. $(n_1 + n_2 - 1)$ degrees of freedom

c. $(n_1 + n_2 - 2)$ degrees of freedom

d. $n_1 - n_2 + 2$

Exhibit BB

The following information was obtained from matched samples.

The daily production rates for a sample of workers before and after a training program are shown below.

Worker	Before	After
1	20	22
2	25	23
3	27	27
4	23	20
5	22	25
6	20	19
7	17	18

Refer to Exhibit BB. The null hypothesis to be tested is H_0 : $\mu_d=0$. The 4. test statistic is

a. -1.96

b. 1.96

c. 0

d. 1.645

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 - 5. In an analysis of variance where the total sample size for the experiment is n_T and the number of populations is K, the mean square within treatments is
 - a. $SSE/(n_T K)$
 - b. $SSTR/(n_T K)$
 - c. SSE/(K-1)
 - d. SSE/K

Exhibit CC

To test whether or not there is a difference between treatments A, B, and C, a sample of 12 observations has been randomly assigned to the 3 treatments. You are given the results below.

Treatment		Obse	ervation	1	
A	20	30	25	33	
В	22	26	20	28	
С	40	30	28	22	

- 6. Refer to Exhibit CC. The null hypothesis for this ANOVA problem is
 - a. $\mu_1 = \mu_2$
 - b. $\mu_1 = \mu_2 = \mu_3$
 - c. $\mu_1 = \mu_2 = \mu_3 = \mu_4$
 - d. $\mu_1 = \mu_2 = ... = \mu_{12}$
- 7. Refer to Exhibit CC. The mean square between treatments (MSTR) equals
 - a. 1.872
 - b. 5.86
 - c. 34
 - d. 36
- 8. In a regression model involving more than one independent variable, which of the following tests must be used in order to determine if the relationship between the dependent variable and the set of independent variables is significant?
 - a. t test
 - b. F test
 - c. Either a t test or a chi-square test can be used.
 - d. chi-square test
- 9. In a regression and correlation analysis if $r^2 = 1$, then
 - a. SSE = SST
 - b. SSE = 1
 - c. SSR = SSE
 - d. SSR = SST

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- 10. A graph showing the probability of accepting the lot as a function of the percent defective in the lot is
 - a. a power curve
 - b. a control chart
 - c. an operating characteristic curve
 - d. None of these alternatives is correct.

Exhibit DD

Five hundred randomly selected automobile owners were questioned on the main reason they had purchased their current automobile. The results are given below.

	Styling	Engineering	Fuel Economy	Total
Male	70	130	150	350
Female	<u>30</u>	20	<u>100</u>	<u>150</u>
	100	150	250	500

H₀: automobile preference is independent of sex

H_a: automobile preference is not independent of sex

- 11. According to Exhibit DD, what is chi-square test statistic?
 - a. 15.891
 - b. 24.056
 - c. 29.890
 - d. 31.746
- 12. Based on Exhibit DD and question number 21, what is your conclusion?
 - a. do not reject the null hypothesis
 - b. reject the null hypothesis
 - c. can not judge
 - d. none of the above

Exhibit EE

Below you are given a partial computer output based on a sample of 7 observations, relating an independent variable (x) and a dependent variable (y).

Predictor	Coefficient	Standard Error
Constant	24.112	8.376
x	-0.252	0.253

Analysis of Variance

SOURCE	SS
Regression	196.893
Error	94.822

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編號: 94

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- 13. Based on Exhibit EE, to test for the significance of the slope, what is the t test statistics?
 - a. 3.222
 - b. 3.650
 - c. 3.986
 - d. 4.126
- 14. Based on Exhibit EE, to perform an F test, what is the F test statistic?
 - a. 9.766
 - b. 9.932
 - c. 10.382
 - d. 11.010
- 15. Based on Exhibit EE, what is the coefficient of determination?
 - a. 0.545
 - b. 0.675
 - c. 0.776
 - d. 0.798

Exhibit FF

Part of an ANOVA table is shown below. (hint: you need to fill the table first)

Source of	Sum of	Degrees	Mean	
Variation	Squares	of Freedom	Square	<u> </u>
Between Treatments	64		_	8
Within Treatments			2	
Error				
Total	100			

- 16. Refer to Exhibit FF. If at 95% confidence we want to determine whether or not the means of the populations are equal, the critical value of F is
 - a. 5.80
 - b. 2.93
 - c. 3.16
 - d. 2.90
- 17. Refer to Exhibit FF. The conclusion of the test is that the means
 - a. are equal
 - b. may be equal
 - c. are not equal
 - d. None of these alternatives is correct.

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- 18. Which of the following is(are) point estimator(s)?
 - a o
 - b. μ
 - c. s
 - d. α

Exhibit GG

The following information regarding a dependent variable (Y) and an independent variable (X) is provided.

Y	X
4	2
3	1
4	4
6	3
8	5

SSE = 6

SST = 16

- 19. Refer to Exhibit GG. The coefficient of determination is
 - a. 0.7096
 - b. 0.7906
 - c. 0.625
 - d. 0.375
- 20. Refer to Exhibit GG. The MSE is
 - a. 1
 - b. 2
 - c. 3
 - d. 4
- 21. In multiple regression analysis, the correlation among the independent variables is termed
 - a. homoscedasticity
 - b. linearity
 - c. multicollinearity
 - d. adjusted coefficient of determination
- 22. If A and B are independent events with P(A) = 0.65 and $P(A \cap B) = 0.26$, then, P(B) =
 - a. 0.400
 - b. 0.169
 - c. 0.390
 - d. 0.650

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- 23. 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.
- 24. A variable that takes on the values of 0 or 1 and is used to incorporate the effect of qualitative variables in a regression model is called
 - a. an interaction
 - b. a constant variable
 - c. a dummy variable
 - d. None of these alternatives is correct.
- 25. A random sample of 121 bottles of cologne showed an average content of 4 ounces. It is known that the standard deviation of the contents (i.e., of the population) is 0.22 ounces. In this problem the 0.22 is
 - a. a parameter
 - b. a statistic
 - c. the standard error of the mean
 - d. the average content of colognes in the long run

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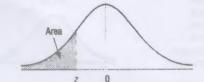
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Cumulat	ive Standar	d Normal Di	stribution							
Z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
3.4	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.000
3.3	.0005	.0005	.0005	.0004	.0004	.0004	.0004	.0004	.0004	.000
-3.2	.0007	.0007	.0006	.0006	.0006	.0006	.0006	.0005	.0005	.000
-3.1	.0010	.0009	.0009	.0009	.0008	.0008	.0008	.0008	.0007	.000
-3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010	.001
-2.9	.0019	.0018	.0018	.0017	.0016	.0016	.0015	.0015	.0014	.001
-2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.001
-2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	4002
-2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.003
-2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.004
2.4	0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.006
-2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.008
-2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.01
-2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.01
-2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.018
-1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.02
-1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.02
-1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.03
-1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.04
1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.05
-1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.06
-1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.08
-1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.09
-1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.11
-1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.13
-0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.18
-0.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.18
-0.7	.2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.21
0.6	2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.24
-0.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.27
-0.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.31
-0.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.34
-0.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.38
-0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.42
-0.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.46

For z values less than 3.49, use 0.0001.



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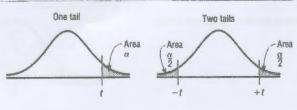
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TABLE	F The t Distribution					
	Confidence intervals	80%	90%	, 95%	98%	99%
	One tail, or	0.10	0.05	0.025	0.01	0.005
d.L	Two tails, or	0.20	0.10	0.05	0.02	0.01
1		3.078	6.314	12.706	31.821	63.657
2		1.886	2.920	4.303	6.965	9.92
3		1.638	2.353	3.182	4.541	5.84
4		1.533	2.132	2.776	3.747	4.60
5		1.476	2.015	2.571	3.365	4.03
6		1.440	1,943	2.447	3.143	3.70
6		1.415	1.895	2.365	2.998	3.49
8		1.397	1.860	2.306	2.896	3.35
9		1.383	1.833	2.262	2.821	3,25
10		1.372	1.812	2.228	2.764	3.16
11		1.363	1.796	2.201	2.718	3.10
12		1.356	1.782	2.179	2.681	3.05
13		1.350	1.771	2.160	2.650	3.01
14	3.00	1.345	1.761	2.145	2.624	2.97
15		1.341	1.753	2.131	2.602	2.94
16		1.337	1.746	2.120	2.583	2.92
17		1.333	1.740	2.110	2.567	2.89
18		1.330	1.734	2.101	2.552	2.87
19		1.328	1.729	2.093	2.539	2.86
20		1,325	1.725	2.086	2.528	2.84
21		1.323	1.721	2.080	2.518	2.83
22		1.321	1,717	2.074	2.508	2.81
23		1.319	1.714	2.069	2.500	2.80
24		1.318	1.711	2.064	2.492	2.79
25		1.316	1.708	2.060	2.485	2.78
26		1.315	1.706	2.056	2.479	2.77
27		1.314	1.703	2.052	2.473	2.77
28		1.313	1.701	2.048	2.467	2.76
29		1.311	1.699	2.045	2.462	2.75
30		1.310	1.697	2.042	2.457	2.75
32		1.309	1.694	2.037	2.449	2.73
34		1.307	1.691	2.032	2.441	2.72
36		1.306	1.688	2.028	2.434	2.71
38		1.304	1.686	2.024	2.429	2.71
40		1.303	1.684	2.021	2.423	2.70
45		1.301	1.679	2.014	2.412	2.69
50		1.299	1.676	2.009	2.403	2.67
55		1.297	1.673	2.004	2.396	2.60
60		1.296	1.671	2.000	2.390	2.66
65	1	1.295	1.669	1.997	2.385	2.65
70		1.294	1.667	1.994	2.381	2.64
75		1.293	1.665	1.992	2.377	2.64
80		1.292	1.664	1.990	2.374	2.63
90		1.291	1.662	1.987	2.368	2.63
100		1.290	1.660	1.984	2.364	2.62
500		1.283	1.648	1.965	2.334	2.58
1000		1.282	1.646	1.962	2.330	2.58
(Z) Œ		1.282*	1.645*	1.960	2.326°	2.57

This value has been rounded to 1.28 in the textbook.

Source: Adapted from W. H. Beyer, Handbook of Tables for Probability and Statistics, 2nd ed., CRC Press, Boca Raton, Fla., 1986. Reprinted with permission.



^bThis value has been rounded to 1.65 in the textbook.

This value has been rounded to 2.33 in the textbook.

This value has been rounded to 2.58 in the textbook.

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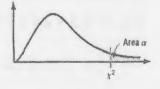
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Degrees of	-		and the same of			O.				and the Alley
freedom	0.995	8.99	0.975	0.95	0.90	0.10	0.05	0.025	0.01	0.005
1		*****	0.001	0.004	0.016	2.706	3.841	5.024	6.635	7.879
2	0.010	0.020	0.051	0.103	0.211	4.605	5.991	7.378	9.210	10.597
3	0.072	0.115	0.216	0.352	0.584	6.251	7.815	9.348	11.345	12.83
4	0.207	0.297	0.484	0.711	1.064	7.779	9.488	11.143	13.277	14.86
5	0.412	0.554	0.831	1.145	1.610	9.236	11.071	12.833	15.086	16.75
6	0.676	0.872	1.237	1.635	2.204	10.645	12.592	14.449	16.812	18.54
7	0.989	1.239	1.690	2.167	2.833	12.017	14.067	16.013	18.475	20.27
8	1.344	1.646	2.180	2.733	3.490	13.362	15.507	17.535	20.090	21.95
9	1.735	2.088	2.700	3.325	4.168	14.684	16.919	19.023	21.666	23.58
10	2.156	. 2.558	3.247	3.940	4.865	15.987	18.307	20.483	23.209	25.18
11	2.603	3.053	3.816	4.575	5.578	17.275	19.675	21.920	24.725	26.75
12	3.074	3.571	4.404	5.226	6.304	18.549	21.026	23.337	26.217	28.29
13	3.565	4.107	5.009	5.892	7.042	19.812	22.362	24.738	27.688	29.81
14	4.075	4.660	5.629	6.571	7.790	21.064	23.685	26.119	29,141	31,31
15	4.601	5.229	6.262	7.261	8.547	22,307	24.996	27.488	30.578	32.80
16	5.142	5.812	6.908	7.962	9.312	23.542	26.296	28.845	32.000	34.26
17	5.697	6.408	7.564	8.672	10.085	24.769	27,587	30.191	33.409	35.71
18	6.265	7.015	8.231	9.390	10.865	25.989	28.869	31.526	34.805	37.15
19	6.844	7.633	8.907	10.117	11.651	27.204	30.144	32.852	36.191	38.58
20	7.434	8.260	9.591	10.851	12.443	28.412	31.410	34.170	37.566	39.99
21	8.034	8.897	10.283	11.591	13.240	29.615	32.671	35.479	38.932	41.40
22	8.643	9.542	10.982	12.338	14.042	30.813	33.924	36.781	40.289	42.79
23	9.262	10.196	11.689	13.091	14.848	32.007	35.172	38.076	41.638	44.18
24	9.886	10.856	12.401	13.848	15.659	33.196	36.415	39.364	42.980	45.5
25	10.520	11.524	13.120	14.611	16,473	34.382	37.652	40.646	44.314	46.9
26	11,160	12.198	13.844	15.379	17.292	35.563	38.885	41.923	45.642	48.29
27	11.808	12.879	14.573	16.151	18.114	36.741	40.113	43.194	46.963	49.6
28	12.461	13.565	15.308	16.928	18.939	37.916	41.337	44.461	48.278	50.9
29	13.121	14.257	16.047	17.708	19.768	39.087	42.557	45.722	49.588	52.33
30	13.787	14.954	16.791	18.493	20.599	40.256	43.773	46.979	50.892	53.6
40	20.707	22.164	24.433	26.509	29.051	51.805	55.758	59.342	63.691	66.7
50	27.991	29,707	32,357	34.764	37.689	63.167	67.505	71,420	76.154	79.4
60	35.534	37.485	40.482	43.188	46.459	74.397	79.082	83.298	88.379	91.9
70	43.275	45.442	48.758	51.739	55.329	85.527	90.531	95.023	100.425	104.2
80	51.172	53.540	57.153	60.391	64.278	96.578	101.879	106.629	112.329	116.3
90	59.196	61.754	65.647	69.126	73.291	107,565	113.145	118.136	124.116	128.2
100	67.328	70.065	74.222	77.929	82.358	118.498	124.342	129.561	135.807	140.1

Source: Owen, Handbook of Statistical Tables, Tables A-4 "Chi-Square Distribution Table," (†) 1962 by Addison-Wesley Publishing Company, Inc. Copyright renewal (†) 1990. Reproduced by permission of Pearson Education, Inc.



國立成功大學 104 學年度碩士班招生考試試題

系所組別:資源工程學系丙組

考試科目:統計學

考試日期:0211, 節次:3

第10頁,共10頁

※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。

27 28 29 30 40 60	27 28 29 40 40	27 28 29 40				27		26	25	24	23	22	21	20		18	17	16	- 25	14		12		₹ 7 5		209	71	5	5	4	1). ±			denominator				TABLE	
3.92		4.00	4.08	417	4 18	4.20	4 21	4.23	4.24	4 26	4 28	4 30	4 32	4.35	4.38	40,40	4 45	4.49	4.54	4.60	4 67	4.75	4.84	4.96	5 12	5 32	5 59	5.99	561	771	10.13	18,51	161 4				To the last	H (co	
3.07		3.15	3 23	3.32	3.33	3.34	3 35	3.37	3 39	3.40	3 42	3.44	3 47	3.49	3 52	3 55	3 59	3.63	3.69	3.74	3 81	3.89	3 98	4.10	4.26	4 46	4.74	514	579	6.94	9.55	19 00	199.5	2	Jan Jan J			(continued)	
2.68		2.76	2 84	2.92	2.93	295	2.96	2.98	2.99	3.01	3 0.3	3 05	3.07	3,10	3 13	3.16	3.20	3.24	3 29	3.34	3.41	3,49	3.59	3.71	3.86	4:07	4 35	4.76	5,41	6.59	9 28	19 16	215.7	ؙۣۻ		1/7	1		
7.40	2 42	7.53	2,61	2.69	2 70	2.71	2.73	2.74	2 76	2,78	2 80	2 82	2.84	2.87	2.90	2.93	2.96	3.01	3.06	311	3.18	3.26	3.36	3 48	3 63	3.84	A 12	4.53	5.19	6.39	9.12	19.25	224 6	4		一つめる大		s. •	
-	2 29	2.37	2.45	2.53	2.55	2,56	2.57	2.59	260	2.62	2.54	2 66	2 68	2.71	2.74	2.77	2.81	2.85	2 90	2.96	3.03	3.11	3.20	3 33	3.48	3.69	3 97	4.39	5.05	6.26	9,01	19,30	230.2	•		^	Shrinks:		
	217	2,25	2.34	2.42	2 43	2.45	2 46	2.47	2.49	2.51	2 53	2.55	2 57	2.60	2.63	2.66	2.70	2.74	2.79	2.85	2.92	3.00	3.09	3.22	3.37	358	3.87	4.28	4.95	616	8,94	19.33	234 0	6					
	2 09	2.17	2 25	2.33	2.35	2.36	2.37	2.39	2.40	2.42	244	2,46	2.49	2.51	254	2.58	2.61	2.66	2.71	2.76	2.83	2.91	3.01	3.14	3.29	3.50	3.79	4,21	4.88	6.09	8,89	19:35	236.8	1		阿斯拉克	SHEET SHAN		
	2.02	2,10	2.18	2 27	2.28	2.29	2 31	2.32	234	.2.36	2 37	2.40	2.42	2.45	2.48	2.51	2.55	2.59	2.64	2.70	2.77	2.85	2.95	3.07	3 23	3,44	3.73	4.15	4.82	6.04	0.05	19.37	238.9	8				Į.	
	1.96	204	212	2.21	2.22	2.24	2.25	2 27	2.28	2.30	2.32	2.34	2.37	2.39	2.42	2.46	2.49	2.54	2.59	2.65	2.71	2.80	2.90	3.02	3 18	3.39	3:68	4.10	4.77	6.00	8.81	19.38	240.5	9	d.f.N.: degrees of freedom, numerator				
	1.91	1 99	2.06	2.16	2.18	2.19	2.20	2.22	2,24	2.25	2.27	2.30	2.32	2.35	2.38	2,41	2.45	2.49	2.54	2.60	2,67	2.75	2.85	2.98	3.14	3,35	3.64	4.06	4.74	5.96	8.79	19:40	241.9	10	es of freed	er = 0.05	THE PERSON		
	1 83	1 92	2.00	2,09	2.10	2.12	213	2.15	2 16	2.18	2.20	223	2.25	2.28	2.31	2.34	2.38	2.42	2,48	2.53	2.60	2.69	2 79	2.91	3.07	3 28	3 57	4.00	4.68	5.91	8,74	19.41	243.9	12	om, numera				
	1 75	1.84	1.92	2.01	2.03	2.04	2:06	2,07	2 09	2.11	213	2.15	2.18	2.20	2.23	2.27	2.31	2.35	2.40	2:46	2.53	2.62	2.72	2.85	3.01	3.22	3.51	3.94	4.62	5.86	8.70	19.43	245.9	15	itor				
	1,66	1.75	1.84	1,93	1.94	1,96	1.97	1.99	2.01	2.03	2.05	2.07	2.10	2.12	2.16	219	2.23	2.28	2.33	. 2.39	2,46	:2.54	2.65	2.77	2.94	3.15	3,44	3.87	4.56	5.80	8.66	19.45	248.0	20	4	5			
	1.61	1.70	1 79	1.89	190	191	1.93	1.95	1.96	1 98	201	2.03	2,05	2.08	2.11	2.15	2.19	2:24	2.29	2.35	2 42	2.51	2,61	274	2.90	21.5	3.41	3.84	4.53	5.77	8.54	19.45	249.1	24					
	1 55	1 65	1 1.74	1.84	1.85	1 87	1 88	1.90	1.92	1.94	1.96	1.98	2.01	2.04	2.07	2.11	2.15	2.19	2.25	2.31	2.38	2.47	2.57	270	2.86	3.08	3.38	-3.81	4.50	5.75	8.62	19.46	250.1	30					
	1.50	1.59	1.69	1.79	1.81	1.82	1 84	1 85	1 87	1 89	1 91	1.94	1.96	1.99	2.03	2.06	210	2.15	2.20	2.27	2.34	2 43	2.53	2.66	2.83	3.04	3.34	3.77	4.46	5.72	8.59	19.47	251 1	40					
	1,43	1 53	1.61	1.74	1 75	1:77	1 79	1.80	1.82	1:84	1.86	1.89	1.92	1.95	1.98	, 2.02	2,06	2.11	2.16	2 22	2.30	2.38	2 49	2,62	2 79	3.01	3.30	3.74	4.43	5.69	8 57	19.48	2522	80			のである		
	1,35	1 1.47	1.58	1.63	1.70	171	1.73	1,75	1 77	1 79	1.81	1 84	1,87	1.90	1.93	1 97	2.01	2.06	2.11	2.18	2.25	2.34	2 45	2 56	2.75	2.97	3.27	3.70	4.40	5,56	8.55	19 49	253 3	120			日の名の日本		
	1 25	1.39		1.62	7	1.65	1 67	1,69	171	1:73	1.76	1.78	1 81	1.84	1.88	1.92	1.96	2.01	2 07	2.13	2.21	2.30	2.40	2 54	2.71	2.93	3.23	3.67	4 36	5.63	8.53	19.50	254.3	8			対が記れた		