ICPSR 4248

ACTIVE (Advanced Cognitive Training for Independent and Vital Elderly), 1999-2001 [United States]

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Form 612 Letter Series Codebook

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ACTIVE

Letter Series

Form #612

A1. ID# Label

A2. Visit # GRP3, GRP4, GRP5, GRP6, ABB3, ABB4, ABB5, ABB6 (circle one)

A3. Form Version: 06/01/2001

VISIT	Frequency	Percent	Cum Freq	Cum Percent
ABB3	15	0.44	15	0.44
ABB5	3	0.09	18	0.53
GRP3	1823	53.60	1841	54.13
GRP5	1560	45.87	3401	100.00

LETTER SERIES

Study the series of letters in Example A below on the left. What letter should come NEXT?

A. abababab

a)b c d e

The series goes like this: **ab ab ab ab**. The NEXT letter in the series should be **a**. The letter **a** in the row of Answer Choices for Example A has been circled.

Now study the series of letters in Example B below. Decide what the NEXT letter should be. Circle the NEXT letter in the series from the Answer Choices on the right.

B. cadaeafa

c d e f g

The series goes like this: ca da ea fa. You should have circled g in the Answer Choices on the right.

Now study the series of letters in Examples C, D, E and F below. In each series decide what the NEXT letter should be. Circle the NEXT letter in the series from the Answer Choices on the right.

		Answer Choices
C.	c d c d c d	a b c d e
D.	a a b b c c d d	a b c d e
Е.	a b x c d x e f x g h x	hijkx
F.	a a a b b b c c c d d	a b c d e

In Example C the series goes like this: **cd cd cd**. You should have circled **c** in the Answer Choices on the right.

In Example D the series goes like this: **aa bb cc dd**. You should have circled **e** in the Answer Choices on the right.

In Example E the series goes like this: **abx cdx efx ghx**. You should have circled **i** in the Answer Choices on the right.

In Example F the series goes like this: **aaa bbb ccc dd**. You should have circled **d** in the Answer Choices on the right.

When you are given the signal to begin, you are to work more problems like those above. If you come to a problem you cannot work, skip it and go on to the next problem. If you have time, go back to the hard problems. You will have two pages of problems and you will have 6 minutes to complete the pages. You are not expected to finish in the time allowed.

STOP HERE-- Do not turn the page until the examiner tells you.

1. a a b c c d e e f g g

a c f g h

ROW1	Frequency	Percent	Cum Freq	Cum Percent
-9	26	0.76	26	0.76
1	9	0.26	35	1.03
2	3	0.09	38	1.12
3	31	0.91	69	2.03
4	123	3.62	192	5.65
5	3209	94.35	3401	100.00

2. a x a y b x b y c x c y d x d d e f x y

ROW2	Frequency	Percent	Cum Freq	Cum Percent
-9	115	3.38	115	3.38
-3	1	0.03	116	3.41
1	33	0.97	149	4.38
2	268	7.88	417	12.26
3	36	1.06	453	13.32
4	102	3.00	555	16.32
5	2846	83.68	3401	100.00

3. a b c a b c d e f d e f g h i g h i j k

ROW3	Frequency	Percent	Cum Freq	Cum Percent
-9	224	6.59	224	6.59
-3	1	0.03	225	6.62
-2	1	0.03	226	6.65
1	2179	64.07	2405	70.71
2	36	1.06	2441	71.77
3	42	1.23	2483	73.01
4	871	25.61	3354	98.62
5	47	1.38	3401	100.00

4. a b c x y z d e f x y z g h i j k l x y

ROW4	Frequency	Percent	Cum Freq	Cum Percent
-9	130	3.82	130	3.82
-3	2	0.06	132	3.88
-2	2	0.06	134	3.94
1	605	17.79	739	21.73
2	48	1.41	787	23.14
3	10	0.29	797	23.43
4	2568	75.51	3365	98.94
5	36	1.06	3401	100.00

5. a b c a b d a b e a b f a b c f g

ROW5	Frequency	Percent	Cum Freq	Cum Percent
-9	69	2.03	69	2.03
-3	4	0.12	73	2.15
-2	4	0.12	77	2.26
1	2492	73.27	2569	75.54
2	10	0.29	2579	75.83
3	40	1.18	2619	77.01
4	19	0.56	2638	77.57
5	763	22.43	3401	100.00

6. x y z a x y z b x y z c x y z x b c d e

ROW6	Frequency	Percent	Cum Freq	Cum Percent
-9	92	2.71	92	2.71
-3	5	0.15	97	2.85
-2	8	0.24	105	3.09
1	138	4.06	243	7.14
2	27	0.79	270	7.94
3	38	1.12	308	9.06
4	3019	88.77	3327	97.82
5	74	2.18	3401	100.00

7. e f c g h c i j c k l c m n c c d m n o

ROW7	Frequency	Percent	Cum Freq	Cum Percent
-9	271	7.97	271	7.97
-3	22	0.65	293	8.62
-2	13	0.38	306	9.00
1	27	0.79	333	9.79
2	83	2.44	416	12.23
3	59	1.73	475	13.97
4	243	7.14	718	21.11
5	2683	78.89	3401	100.00

8. c b a c b a c b

a b c d e

ROW8	Frequency	Percent	Cum Freq	Cum Percent
-9	50	1.47	50	1.47
-3	16	0.47	66	1.94
-2	35	1.03	101	2.97
1	3110	91.44	3211	94.41
2	18	0.53	3229	94.94
3	74	2.18	3303	97.12
4	65	1.91	3368	99.03
5	33	0.97	3401	100.00

9. ambcmdefmghij i jklm

ROW9	Frequency	Percent	Cum Freq	Cum Percent
-9	630	18.52	630	18.52
-3	45	1.32	675	19.85
-2	51	1.50	726	21.35
1	18	0.53	744	21.88
2	22	0.65	766	22.52
3	888	26.11	1654	48.63
4	27	0.79	1681	49.43
5	1720	50.57	3401	100.00

10. a a c c e e g g i i h i j k l

ROW10	Frequency	Percent	Cum Freq	Cum Percent
-9	67	1.97	67	1.97
-3	37	1.09	104	3.06
-2	96	2.82	200	5.88
1	236	6.94	436	12.82
2	44	1.29	480	14.11
3	1242	36.52	1722	50.63
4	1649	48.49	3371	99.12
5	30	0.88	3401	100.00

 $\textbf{11.} \quad \textbf{e} \quad \textbf{f} \quad \textbf{e} \quad \textbf{f} \quad \textbf{c} \quad \textbf{d} \quad \textbf{g} \quad \textbf{h} \quad \textbf{g} \quad \textbf{h} \quad \textbf{c} \quad \textbf{d} \quad \textbf{i} \quad \textbf{j} \quad \textbf{k}$

ROW11	Frequency	Percent	Cum Freq	Cum Percent
-9	776	22.82	776	22.82
-3	126	3.70	902	26.52
-2	133	3.91	1035	30.43
1	199	5.85	1234	36.28
2	42	1.23	1276	37.52
3	1366	40.16	2642	77.68
4	56	1.65	2698	79.33
5	703	20.67	3401	100.00

12. a b b c c c d d d d e e e e d e f g h

ROW12	Frequency	Percent	Cum Freq	Cum Percent
-9	97	2.85	97	2.85
-3	56	1.65	153	4.50
-2	259	7.62	412	12.11
1	27	0.79	439	12.91
2	1722	50.63	2161	63.54
3	1212	35.64	3373	99.18
4	19	0.56	3392	99.74
5	9	0.26	3401	100.00

13. a b c a b c d a b c d e

ROW13	Frequency	Percent	Cum Freq	Cum Percent
-9	366	10.76	366	10.76
-3	164	4.82	530	15.58
-2	315	9.26	845	24.85
1	2123	62.42	2968	87.27
2	90	2.65	3058	89.91
3	128	3.76	3186	93.68
4	115	3.38	3301	97.06
5	100	2.94	3401	100.00

14 a b c c d e f f g h i i j k l m

ROW14	Frequency	Percent	Cum Freq	Cum Percent
-9	204	6.00	204	6.00
-3	113	3.32	317	9.32
-2	479	14.08	796	23.40
1	34	1.00	830	24.40
2	9	0.26	839	24.67
3	1966	57.81	2805	82.48
4	591	17.38	3396	99.85
5	5	0.15	3401	100.00

15. a b a c d c e f e g h g i j g h i j k

ROW15	Frequency	Percent	Cum Freq	Cum Percent
-9	515	15.14	515	15.14
-3	189	5.56	704	20.70
-2	592	17.41	1296	38.11
1	39	1.15	1335	39.25
2	59	1.73	1394	40.99
3	1249	36.72	2643	77.71
4	72	2.12	2715	79.83
5	686	20.17	3401	100.00

GO ON TO NEXT PAGE

Letter Series Answer Choices

16 a b c n o d e f n o g h i n o i j k n o

ROW16	Frequency	Percent	Cum Freq	Cum Percent
-9	447	13.14	447	13.14
-3	301	8.85	748	21.99
-2	781	22.96	1529	44.96
1	83	2.44	1612	47.40
2	1599	47.02	3211	94.41
3	126	3.70	3337	98.12
4	44	1.29	3381	99.41
5	20	0.59	3401	100.00

17. a b b b c d d d e f f f g h h g h i j k

ROW17	Frequency	Percent	Cum Freq	Cum Percent
-9	154	4.53	154	4.53
-3	102	3.00	256	7.53
-2	1082	31.81	1338	39.34
1	3	0.09	1341	39.43
2	1947	57.25	3288	96.68
3	101	2.97	3389	99.65
4	9	0.26	3398	99.91
5	3	0.09	3401	100.00

h g f e d c b

b c g h

18.

ROW18	Frequency	Percent	Cum Freq	Cum Percent
-9	363	10.67	363	10.67
-3	246	7.23	609	17.91
-2	1184	34.81	1793	52.72
1	1428	41.99	3221	94.71
2	19	0.56	3240	95.27
3	59	1.73	3299	97.00
4	50	1.47	3349	98.47
5	52	1.53	3401	100.00

19 a c e g i k m

k 1 m n o

ROW19	Frequency	Percent	Cum Freq	Cum Percent
-9	303	8.91	303	8.91
-3	141	4.15	444	13.05
-2	1430	42.05	1874	55.10
1	3	0.09	1877	55.19
2	58	1.71	1935	56.90
3	6	0.18	1941	57.07
4	400	11.76	2341	68.83
5	1060	31.17	3401	100.00

20. a x b y c z a x b y c z a x b a b c x y

ROW20	Frequency	Percent	Cum Freq	Cum Percent
-9	313	9.20	313	9.20
-3	210	6.17	523	15.38
-2	1571	46.19	2094	61.57
1	20	0.59	2114	62.16
2	12	0.35	2126	62.51
3	63	1.85	2189	64.36
4	30	0.88	2219	65.25
5	1182	34.75	3401	100.00

21. a b b c d d e f f g h

e f g h i

ROW21	Frequency	Percent	Cum Freq	Cum Percent
-9	226	6.65	226	6.65
-3	125	3.68	351	10.32
-2	1781	52.37	2132	62.69
1	2	0.06	2134	62.75
2	1	0.03	2135	62.78
3	8	0.24	2143	63.01
4	1181	34.73	3324	97.74
5	77	2.26	3401	100.00

ROW22	Frequency	Percent	Cum Freq	Cum Percent
-9	311	9.14	311	9.14
-3	233	6.85	544	16.00
-2	1906	56.04	2450	72.04
1	25	0.74	2475	72.77
2	1	0.03	2476	72.80
3	11	0.32	2487	73.13
4	361	10.61	2848	83.74
5	553	16.26	3401	100.00

23. a b c a d e f d g h i g j k l i j k l m

ROW23	Frequency	Percent	Cum Freq	Cum Percent
-9	554	16.29	554	16.29
-3	275	8.09	829	24.38
-2	2139	62.89	2968	87.27
1	10	0.29	2978	87.56
2	212	6.23	3190	93.80
3	10	0.29	3200	94.09
4	10	0.29	3210	94.38
5	191	5.62	3401	100.00

24. a s b t c u d v e w f x g f g h x y

ROW24	Frequency	Percent	Cum Freq	Cum Percent
-9	401	11.79	401	11.79
-3	72	2.12	473	13.91
-2	2414	70.98	2887	84.89
1	4	0.12	2891	85.00
2	4	0.12	2895	85.12
3	65	1.91	2960	87.03
4	8	0.24	2968	87.27
5	433	12.73	3401	100.00

25. a a b b c d d e e f g g h h i j k l

ROW25	Frequency	Percent	Cum Freq	Cum Percent
-9	304	8.94	304	8.94
-3	76	2.23	380	11.17
-2	2486	73.10	2866	84.27
1	455	13.38	3321	97.65
2	70	2.06	3391	99.71
3	4	0.12	3395	99.82
4	2	0.06	3397	99.88
5	4	0.12	3401	100.00

26. a a b a b c c d c d e e f e f g h i

ROW26	Frequency	Percent	Cum Freq	Cum Percent
-9	420	12.35	420	12.35
-3	146	4.29	566	16.64
-2	2562	75.33	3128	91.97
1	143	4.20	3271	96.18
2	27	0.79	3298	96.97
3	94	2.76	3392	99.74
4	6	0.18	3398	99.91
5	3	0.09	3401	100.00

27. a c f h k m p r

q r s t u

ROW27	Frequency	Percent	Cum Freq	Cum Percent
-9	369	10.85	369	10.85
-3	80	2.35	449	13.20
-2	2708	79.62	3157	92.83
1	10	0.29	3167	93.12
2	4	0.12	3171	93.24
3	66	1.94	3237	95.18
4	54	1.59	3291	96.77
5	110	3.23	3401	100.00

ROW28	Frequency	Percent	Cum Freq	Cum Percent
-9	310	9.11	310	9.11
-3	42	1.23	352	10.35
-2	2788	81.98	3140	92.33
1	2	0.06	3142	92.38
2	3	0.09	3145	92.47
3	1	0.03	3146	92.50
4	4	0.12	3150	92.62
5	251	7.38	3401	100.00

29. a b c c b a d e f f e d g h i h i j k l

ROW29	Frequency	Percent	Cum Freq	Cum Percent
-9	332	9.76	332	9.76
-3	73	2.15	405	11.91
-2	2830	83.21	3235	95.12
1	2	0.06	3237	95.18
2	138	4.06	3375	99.24
3	19	0.56	3394	99.79
4	5	0.15	3399	99.94
5	2	0.06	3401	100.00

30. a b c b c d e f e f g h i h f g h i j

ROW30	Frequency	Percent	Cum Freq	Cum Percent
-9	357	10.50	357	10.50
-3	34	1.00	391	11.50
-2	2903	85.36	3294	96.85
1	1	0.03	3295	96.88
2	3	0.09	3298	96.97
3	3	0.09	3301	97.06
4	73	2.15	3374	99.21
5	27	0.79	3401	100.00