

2000-10

2000. 12

鄭洪周

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2.	2
	() 4
1.	4
2.	9
3.	20
4.	- < I > 29
5.	29
	() 33
1.	33
2.	52
IV.	59
1.	59
2.	61
3.	63
4.	73
V.	87
1.	87
2.	97
3.	102

VI.	105
1.	105
2.	.....	118
	:	
	-	..... 121
	:	..... 147
	:	..... 191

< -1>	가 가	15
< -2>	.....	24
< -3>	.....	25
< -4>	.....	27
< -5>	.....	28
< -1>	.....	34
< -2>	()	35
< -3>	()	35
< -4>	.....	36
< -5>	.....	37
< -6>	.....	39
< -7>	.....	40
< -8>	.....	40
< -9>	.....	41
< -10>	.....	43
< -11>	-	44
< -12>	.....	45
< -13>	.....	47
< -14>	.....	48
< -15>	ARIMA (p,l,q)	49
< -16>	ARIMA (p,l,q)	50
< -17>	.....	51
< -18>	가 , , ,	56
< -1>	/	63
< -2>	가 () 가	66

< -3>	가 - ()	68
< -4>	.....	69
< -5>	.....	70
< -6>	.....	72
< -7>	.....	72
< -8>	가 -	76
< -9>	가 -	77
< -10>	가 -	78
< -11>	가 -	79
< -12>	가 -	81
< -13>	가 -	83
< -14>	가 -	84
< -15>	가 -	85
< -1>	가	88
< -2>	90
< -3>	90
< -4>	91
< -5>	가	92
< -6>	96
< -7>	103

<	- 1>	12
<	- 2>	12
<	- 3>	13
<	- 4>	14
<	- 1>	65

I

1.

, , ()
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가
가 .
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2000

가

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가 .

가 .

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가 .

가 . , ,

2.

가

가 .

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가

가

(Limitation)

(Delimitation)

가

(Delphi

)

가

(3

3

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가

가

• ()

1.

가.

(Marketing Channel Distribution Channel)

(Sets of interdependent organizations involved in the process of making a product or service available for use or consumption)¹⁾ . 가

가

2).

3).

가

(satisfy demand)

(stimulate demand)

4). ,

8가

5).

1) Stern, Souis W. and Adel I. El-Ansary, Marketing Channels, Fourth Edition, Prentice Hall, 1992, p.1

2) / , , 1994, p.227

3) Kotler, Philip, Marketing Management Fifth Edition, Prentice-Hall, 1987, p.539

4) Stern & El-Ansary, p.1

5) Kotler, p.541

가

(Research)

(Promotion)

(Contact)

offer (Matching)

(Negotiation)

(Physical Distribution)

(Financing)

(Risk Taking)

가

Approach

Zero-Base Approach Status-Quo

6) 가 Mixed

Approach

1) Zero-Base Approach

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 가 가 7).
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 가 가 가
 가 . 가
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 , ,
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 , 가 가 .
 , 가 , 가

2) Status-Quo Approach

7) / p.235

가

Zero-Base

가

Zero-Base

가

3) Mixed Approach

Zero-Base Approach

Status-Quo Approach

가

가

가

가

(Effectiveness),
Perspective)

(Equity),

(Efficiency)

(3-E

가

8) Stern & EL-Ansary (1992),

pp.494-534

1)

가
 가 (Stimulation) 가 (Delivery) . ,
 가 가 . ,
 가
 (Physical Efficiency) (Financial Efficiency)

2)

가
 (= /), (= /),
 (= /) 가 .
 가
 , CMPA(Channel Member Performance Assessment) . Kumar
 (1991)가 ()
 () , () , ()
), () , () .
 가 , , ,
 , , , 7가 가
 가

2

가

CMRA(Channel Member Return on Asset)

가

$$CMRA = \frac{\text{-----} - (\text{ , , , })}{+}$$

, DPP(Direct Product Profit) McKinsey & Co.가 1960

가

CMPA

CMRA

DPP

2.

가.

IBM, Xerox, Kodak

가

9). ()
 (,) .
 (, 가,
) (, , 가
) .

가 가 , ,
 가 가 .
 가 .

가 .

(sales force)

, call centre 24

customer loyalty() .

(business partner and distributor)

. Internet

. Dell computer, Charles Schwab, Fidelity Investment

가 Channel Advantage

가 ,

9) ,

가 가

(channel differentiation)

가

()

channel advantage

가

가

(Competitive Mix),

(Supplementary Mix),

(Supportive Mix)

(Hybrid Mix)

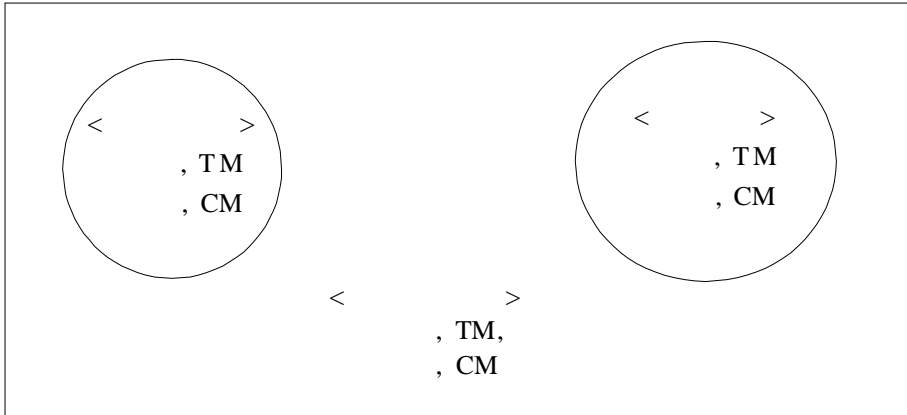
1)

(intensive channel coverage)

, TM, CM

(< -1>).

< -1>

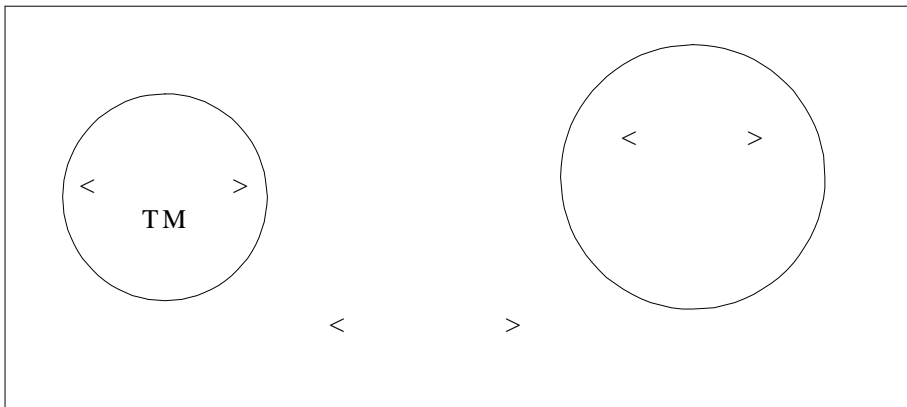


2)

(selective channel coverage)

. TM, ,
(< -2>).

< -2>



3)

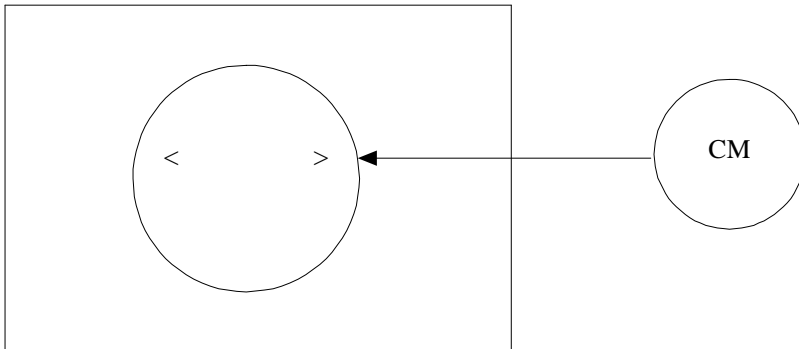
(Integrative Channel Mix)

TM

(< -3>).

10).

< -3>



10)

5가

. , lead generation - lead qualification - selling proposing - close of
 sales - post sales fulfillment & support . 5 lead
 generation lead qualification support
 low-cost

hand-off

4)

3가
20 30

가

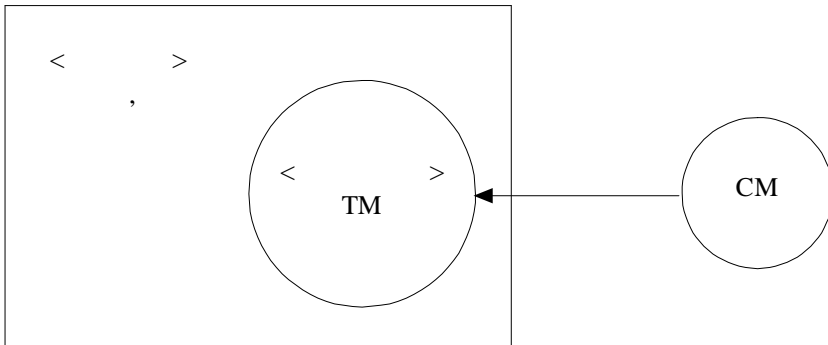
TM

TM

TM

(< -4 >).

< -4 >



가

(profitability)

가

가

11).

가

가 가

11)

60%

7

가 . 가

(Multiple Criteria Decision Making)

가 가 가

가 가 가

(Compromising Model)

가

(Non-compromising Model)

12).

1)

가

< -1>

가 가

	70	80	60
	90	50	40

12) , Art of Management Decision, , 2000, p.195

가 Maximax, Maximin, (Conjunctive Method) Maximax
 (80 , 90) 가
 가 ()
 Maximin (60 ,
 50) 가 ()
 가
 60 50 가
 가
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 , 가 가

2)

가

가 , , TOPSIS, LINMAP
 가 가

가

. TOPSIS(Technique for Order Preference by Similarity to Ideal Solution)

가 가

(Euclidean Distance) 가 가 가

. LINMAP(Linear Programming Technique for Multi-dimensional Analysis of Preference) TOPSIS

가 가 가

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.

()

가

.

(channel shift)

direct channel

가 가

* (UAP,)

UAP

(AXA) . 1990

BNP

가

UAP

* (ING,)

ING

1990

.

가

80%

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600

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가 가 .

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1) 가

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2)

(: field rep

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3) (가)

(market growth rate)

가

가

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가

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가

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가

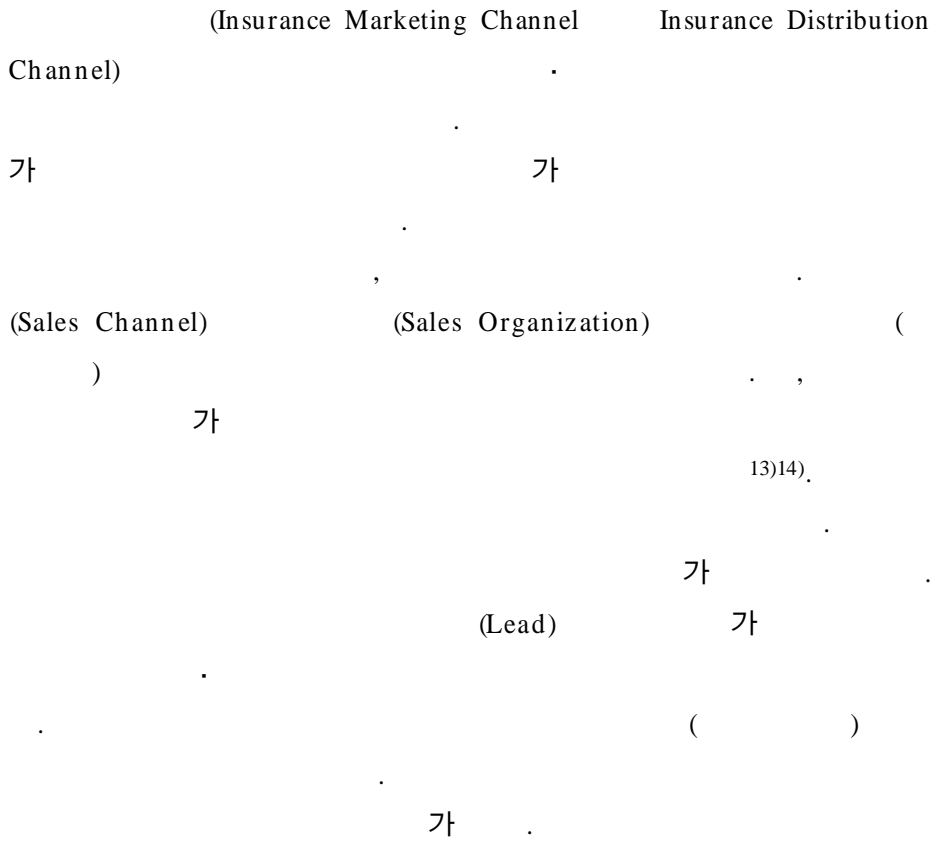
-

-

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3.

가.



13) , , 2000, p.197
 14)

가

15)

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1)

2)

15) Farni, Dieter, Viersicherungsbetriebslehre, 2 Auflage, VVW Karlsruhe, pp.622-663, 1995

3)

4)

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5)

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7)

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 가가
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8)

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Direct Mail		(,) 가	()	가 () DB
Tele Marketing		(,) 가	()	가 DB
Internet Marketing	/	가	가	
	가	가		/ / ()
	가	가 가	()	
	가	가 가	()	가

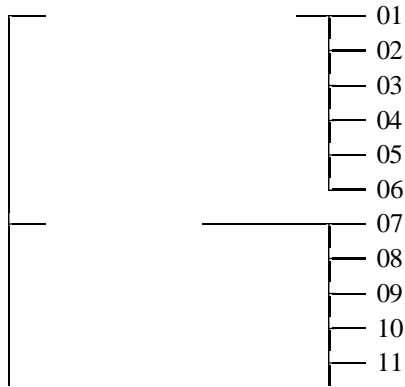
	가	가 / ()	()	(/)
(Broker)	가 ()	가	가 ()	/ /
	가	가 /	()	

: 가 .

2)

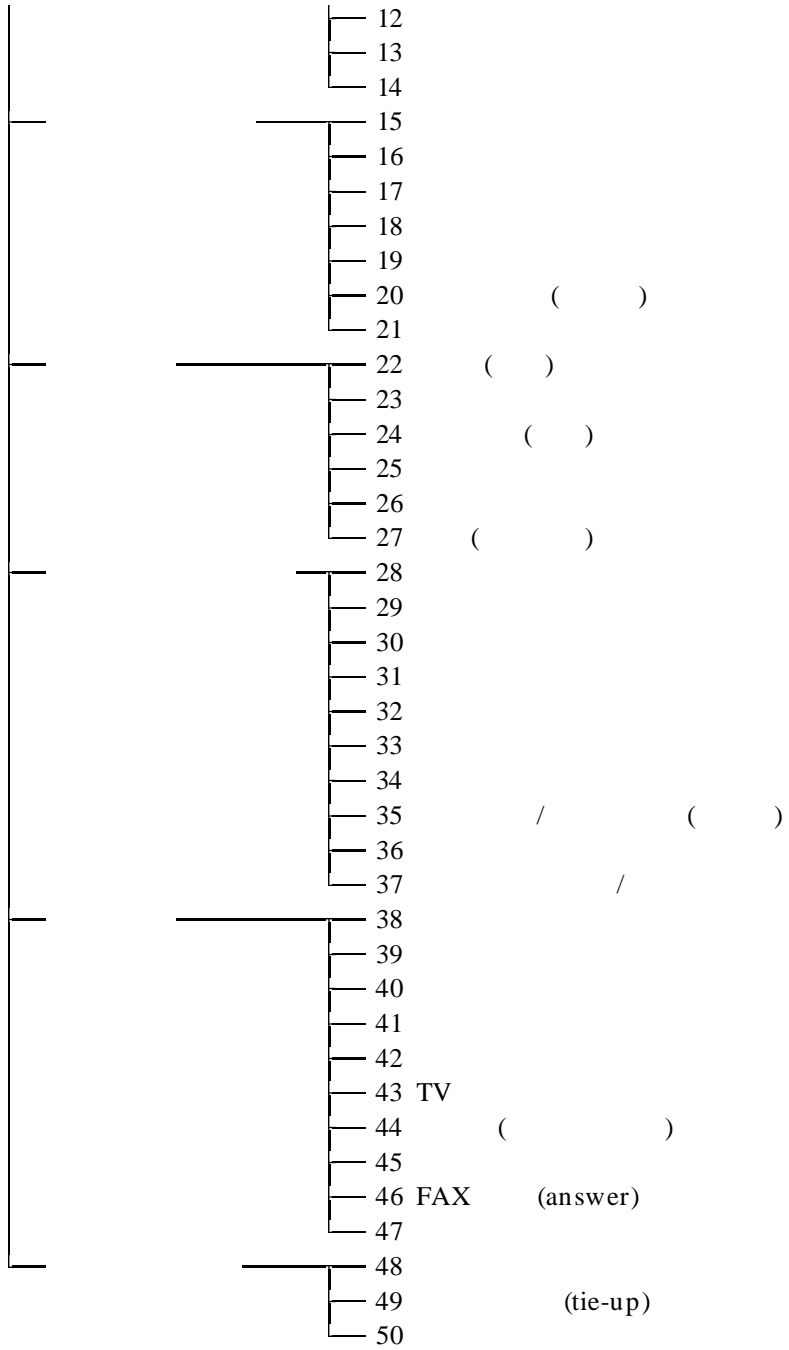
16).

< -3 >



16) () ,

, 1995.



17).

가)

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	* ,	* ,

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	* 가 가	* 가
	* , , 가 가	* 가 , ,
	* , , , 가	* , ,

4. - < I>

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18) < I> .

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가

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5.

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/

Stevens(1994), (1996)²¹,

() Conning & Company(1995)²², TM

18) (1995),

19) 가 .

20)

21) Stevens, Elizabeth, Death of the salesman? : Changing distribution patterns in european insurance, Lafferty publication, 1995.

, , , 1996.

22) Conning & Company, The independent property-Casualty Agent : The

4 (1998), 3 (1999) 23),
 Conning & Company(1994), /
 (2000)24), Cats-Baril & Jelassi
 (1994), LOMA(1995), Williams(1996), (2000), Mulligan(2000)25),
 Berger, Cummins & Weiss(1994),
 / (1999)26)

가 .
 (1998)
 (가)

Squeeze is still on, 1995.

23) , SWIP .

24) Conning & Company, Banks in Insurance: Annuities are just the beginning, 1994.
 / , ,
 2000.8 , pp.7-30.

25) Cats-Baril, Williams and Tawfik Jelassi, The French Videotex System Minitel, MIS Quarterly, March 1994.
 LOMA, The internet and online service, 1995.
 Conning & Company, The Internet: The next distribution system for life insurance products?, The Conning Commentary, 1995.
 Williams, George F. (1996), No need to rush the net, American Agent & Broker, 1996.

2000, , 2000.6.23

Mulligan, Ian H., e-Business in the Insurance Industry, 6
 , 2000.8.24

26) Berger, Allen N., J. David Cummins & Mary A. Weiss, The Coexistence of Alternative Distribution Systems for the Same Financial Services, 1994 ARIA meeting, 1994.
 / , , 1999.12.

가

가

(1998)²⁷⁾

TM

가

가

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가

가 가

가

가

가

가

가

가

가

가 가

TM

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27)

, 1998.3.

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1)

1999 41 3,694
10.1% 1960 1998

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1997

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IMF

3

가

1996

1998

가 1996

가

가

1983

가

가

1.9%

24 1,429

. 1996

가

가

가

가

< -1 >

(: ,)

	1993	1994	1995	1996	1997	1998	1999
	11,607	12,525	14,819	13,561	11,379	8,666	7,913
	50,991	54,477	57,768	56,120	49,110	38,726	35,663
	297,489	338,799	349,206	323,966	293,398	246,193	241,429
	6,378	7,456	8,862	9,930	11,177	11,106	7,789
	.	.	.	.	.	.	7*

: '1999 Fact Book',

* : .

1999

8 2,576

69.1%

3 4

25.1%,

2,384

2.0%

1997

1983 2%

가

가 1999 3.7%

< -2> ()

(: , %)

1993		1,206,296	4,574,487	69,500	3,400	5,853,683
		20.6	78.1	1.2	0.1	
1994		1,319,397	4,872,491	52,800	0	6,244,688
		21.1	78.0	0.8	0	
1995		2,506,515	7,751,447	90,701	17,300	10,365,963
		24.2	74.8	0.9	0.1	
1996		3,862,089	5,905,383	79,400	799	9,847,671
		39.2	60.0	0.8	0	
1997		6,609,990	11,747,582	251,000	16,699	18,625,271
		35.5	63.1	1.3	0.1	
1998		4,213,497	13,356,590	487,300	11,800	18,069,187
		23.3	73.9	2.7	0.1	
1999		3,000,410	8,257,628	238,401	445,201	11,941,640
		25.1	69.1	2.0	3.7	

: '1999 Fact Book',

< -3> ()

(: ,)

	1996		1997		1998		1999.4 9	
TM	18,942	4,803	44,024	9,162	169,826	21,801	140,389	20,431
DM	750	81	4,486	308	77,934	11,194	77,832	9,063
CM	-	-	-	-	-	-	392	8
	19,692	4,884	48,510	9,470	247,760	32,995	218,613	29,502

2)

1997
 가 ,
 TM, DM , ,
 , , 가
 1997 ,
 1998 1.4% 가 .
 가

가 .

< -4 >

(: ,)

	1993	1994	1995	1996	1997	1998	1999
	2,845	3,017	3,699	4,554	4,464	4,051	3,505
	21,813	23,037	26,749	31,098	30,617	25,443	24,524
	66,641	72,771	91,942	115,829	102,732	87,776	83,466
	35,311	35,993	38,252	46,385	51,823	51,073	52,432
	.	.	.	.	.	.	61*

: ' ,
 ' ,
 * 61 7 .

1999

90.6%

가 가 . 1993

1994

가 1997

< -5 >

(: , %)

1993		887,341	1,859,974	3,520,154	512,893	6,780,362
		13.1	27.4	51.9	7.6	
1994		1,179,651	2,531,871	3,687,381	914,376	8,313,278
		14.2	30.5	44.4	11.0	
1995		1,399,133	3,681,480	4,575,467	1,268,273	10,924,353
		12.8	33.7	41.9	11.6	
1996		1,438,233	5,528,421	5,640,575	858,946	13,466,175
		10.7	41.1	41.9	6.4	
1997		2,152,573	7,239,054	6,630,678	295,963	16,318,269
		13.2	44.4	40.6	1.8	
1998		1,468,917	6,647,890	6,062,395	74,437	14,253,639
		10.3	46.6	42.5	0.5	
1999		1,304,435	6,658,295	6,429,876	59,769	14,452,375
		9.0	46.1	44.5	0.4	

가

1998

가

가

1997

가

가

가

가

가

가

가

가

가

가

가 가 .

TM DM, 가

< -6 >

(: %)

1993		24.5	98.5	0.1	62.6	42.2	0.3	·	13.1
		5.5	-	26.9	-	2.7	47.7	·	27.4
		62.5	0.8	58.3	37.4	52.9	52.1	·	51.9
		7.5	0.7	14.6	-	2.1	-	·	7.6
1994		21.1	98.1	0.2	67.4	45.3	0.9	·	14.2
		6.5	-	27.1	-	2.6	59.3	·	30.5
		66.1	1.1	51.0	32.6	50.2	39.8	·	44.4
		6.3	0.8	21.7	-	1.8	-	·	11.0
1995		23.2	98.1	0.1	63.4	47.7	1.2	12.6	12.8
		8.0	-	29.3	-	3.0	58.6	51.6	33.7
		62.6	1.2	46.0	36.6	47.8	40.1	35.8	41.9
		6.1	0.7	24.6	-	1.5	-	-	11.6
1996		23.3	96.0	0.1	50.5	48.6	2.4	16.5	10.7
		9.9	0.1	38.2	-	3.2	62.3	50.4	41.1
		60.6	3.0	48.0	49.5	46.8	35.3	33.1	41.9
		6.1	0.9	13.6	-	1.4	-	-	6.4
1997		19.8	94.8	0.3	70.2	51.9	2.2	18.3	13.2
		12.0	0.1	45.9	-	2.9	61.7	49.5	44.4
		63.1	4.7	49.5	29.8	43.6	36.1	32.2	40.6
		5.1	0.5	4.3	-	1.6	-	-	1.8
1998		13.6	92.3	0.4	58.1	49.3	1.5	19.4	10.3
		13.7	-	47.9	-	2.7	61.9	46.2	46.6
		67.6	7.1	51.0	41.9	45.7	36.6	34.5	42.5
		5.1	0.5	0.7	-	2.3	-	-	0.5

: ' ,

, Cyber Marketing
가
가 .

< -7>

(: ,)

	1996		1997		1998		1999.4 9	
TM	519,068	1,243	923,091	2,276	1,054,041	2,427	462,429	1,970
DM	12,689	10	45,490	97	46,350	112	7,053	9
CM	-	-	17	-	795	2	2,515	2
	531,757	1,253	968,598	2,373	1,101,186	2,541	471,997	1,981

1)

< -8>

(:)

	1993	1994	1995	1996	1997	1998	1999
	1,206,296	1,319,397	2,506,515	3,862,089	6,609,990	4,213,497	3,000,410
	11,607	12,525	14,819	13,561	11,379	8,666	7,913
	103.928	105.341	169.142	284.794	580.894	486.210	379.175
	4,574,487	4,872,491	7,751,447	5,905,383	11,747,582	13,356,590	8,257,628
	297,489	338,799	349,206	323,966	293,398	246,193	241,429
	15.377	14.382	22.197	18.228	40.040	54.253	34.203
	69,500	52,800	90,701	79,400	251,000	487,300	238,401
	6,378	7,456	8,862	9,930	11,177	11,106	7,789
	10.897	7.082	10.235	7.996	22.457	43.877	30.607

2)

가)

()

. 1

가 28).

< -9>

(:)

	1993	1994	1995	1996	1997	1998	1999
	887,341	1,179,651	1,399,133	1,438,233	2,152,573	1,468,917	1,304,435
	2,845	3,017	3,699	4,554	4,464	4,051	3,505
	311,895	391.0	378,246	315,818	482,207	362,606	372,164
	1,859,974	2,531,871	3,681,480	5,528,421	7,239,054	6,647,890	6,658,295
	66,641	72,771	91,942	115,829	102,732	87,776	83,466
	27,910	34,792	40,041	47,729	70,465	75,737	79,773
	3,520,154	3,687,381	4,575,467	5,640,575	6,630,678	6,062,395	6,429,876
	35,311	35,993	38,252	46,385	51,823	51,073	52,432
	99,690	102,447	119,614	121,603	127,949	118,701	122,633

)

TM(TeleMarketing)

48%, 148%

DM(Direct Mail) TM

6

28)

()

1999

Marketing)

CM(Cyber

가

가

E-mail

2

가

(CM TM).

가

가

(Broker) 1997 4

1998

4

가

< -10>

(: ,)

	CY98		CY99	
	346	571	1,108	14,147
	62	57	1,419	497
	585	6,135	11,985	7,075
	10,055	4,406	18,943	9,973
	-	-	-	-
	205	26	1,777	293
	2	123	231	29,357
	1	0	7	1
	47	5,605	465	8,323
	11,303	16,925	35,935	69,667

*

2000

가

가

가

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29). < -10>

29)

11 1 , 2000, pp.121-156

		()
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3 3
 , DM, TM 6 CM

< -12 >

						SK
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	CM					×
					×	×

20

10

1) DATA

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 80%
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 1978 21 8 가
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 1994
 가 . 1998

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1978	4.512	26.165
1979	5.798	27.298
1980	3.992	21.017
1981	4.144	17.045
1982	5.251	15.245
1983	5.937	15.065
1984	8.416	15.683
1985	10.031	15.477
1986	12.947	16.061
1987	16.884	18.894
1988	19.579	19.160
1989	20.787	18.969
1990	21.843	18.103
1991	21.309	17.116
1992	21.414	16.004
1993	20.567	16.804
1994	20.642	19.079
1995	23.186	21.157
1996	24.331	20.317
1997	32.370	21.748
1998	32.424	19.078
1999	32.070	20.494

2) ARIMA(p,I,q)

ADF

, P-P

1 P-P

ADF

P-P

P-P

1

. < -14>

ADF P-P

< -14>

	ADF(1)	P-P(2)
INS1	-1.4654	-0.9820
INS1	-3.4350***	-4.0535*
INS2	-5.2256*	-2.4278
INS2	-	-3.1251**

- 1) ADF , P-P
- 2) () Newey-West q(1987, 1992)
- 3) INS1 , INS2
- 4) * : 1% , ** : 5% , *** : 10%

ARIMA 4 ,
 (identification) 가
 , , (estimation)
 , (diagnostic checking)
 , (forecasting)
 AR MA 가
 , MAPE(absolute value of relative errors)
 ,
 Ljung-Box , Bartlett
 가 < -15> < -16>
 AR(1) MA(1) 가 ARIMA
 ARIMA(1,1,1) t
 , ARIMA
 ARIMA(1,1,1) RMSPE MAPE 가
 , R² 가 , Bartlett
 t 가

ARIMA(1,1,1) 가

< -15> ARIMA(p,I,q)

		(1,1,0)	(0,1,1)	(1,1,1)
	AR(1)	0.0844	0.0937	0.0711
		(0.0403)	(2.4377)	(2.0278)
	MA(1)	0.0787		-0.7962
		(0.2315)		(-3.6458)
			0.0683	1.4198
			(0.2962)	(3.9121)
	RMSPE	0.1655	0.1654	0.1228
	MAPE	5.2103	4.5200	4.0490
	R ²	0.9445	0.9467	0.9712
	Ljung-Box	2.9717	2.1755	3.4091
	Bartlett			
	1	0.7055	0.0184	0.9348
	2	0.3350	0.3191	0.8113
	3	0.3233	0.5068	-0.1181
	4	-1.1320	-1.1079	-0.6371

AR(1) MA(1) 가 ARIMA
 ARIMA(2,1,1) t
 , ARIMA
 ARIMA(2,1,1) RMSPE MAPE 가
 , R² 가 Bartlett
 t 가
 ARIMA(2,1,1) 가

< -16>

ARIMA(p,i,q)

		(1,1,0)	(0,1,1)	(1,1,1)	(2,1,1)	
	AR(1)	-0.0136	-0.0081	-0.0165	0.0170	
		(-0.3981)	(-0.2877)	(-0.5253)	(1.0675)	
		0.3186		0.020	0.8419	
	AR(2)	(1.4107)		(0.0250)	(7.7993)	
					-0.3243	
	MA(1)		0.2722	0.3011	(-1.8921)	
			(1.1398)	(0.3538)	-1.4957	
	RMSPE	0.1044	0.1032	0.1063	0.0552	
	MAPE	2.6663	2.2122	2.6758	1.1276	
	R ²	0.2759	0.5355	0.2908	0.8141	
	Ljung-Box	1.6233	1.8272	2.0159	1.4254	
	Bartlett		0.3291	0.1954	0.2710	-0.5506
			0.4715	0.5826	0.7520	0.2952
			-0.6770	-0.7006	-0.6184	-0.5547
			-0.4686	-0.4986	-0.4485	-0.5989

3)

2000

2010

. < -17>

가 ,

가

가

가

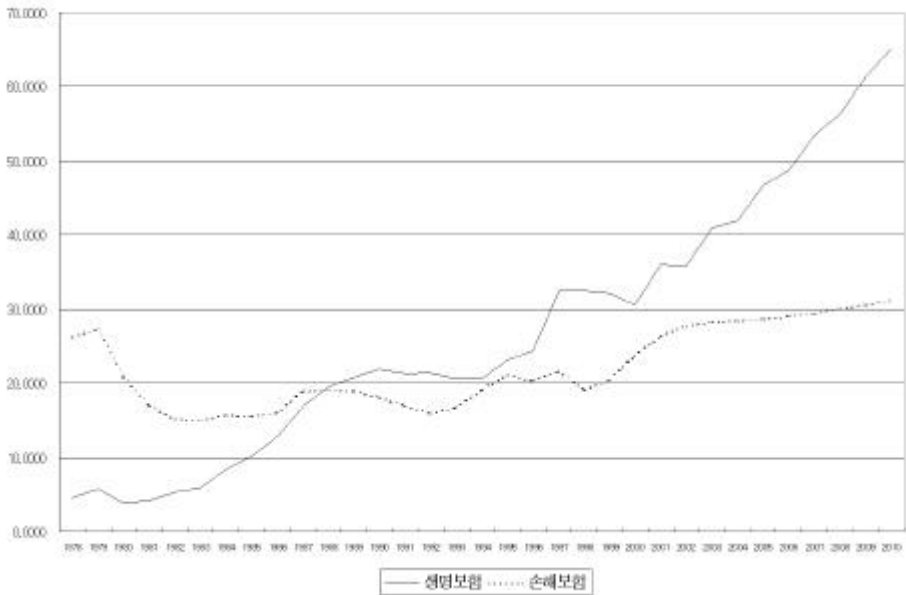
가

가

< -17 >

2000	30.5113	23.7171
2001	36.0749	26.4220
2002	35.8770	27.8267
2003	40.9478	28.2982
2004	41.8837	28.4543
2005	46.7492	28.6685
2006	48.6717	29.0349
2007	53.5651	29.5209
2008	56.4016	30.0571
2009	61.5098	30.6030
2010	65.2351	31.1464

생명보험/손해보험의 인당실질생산성 (실제치와 예측치)



2.

가

30)가 , 가 2000 가

31). 가 .

가.

1) TM(Tele marketing)

,
,
32). TM Royal Scotland Direct Line

33). TM 가 ,

TM , 가
TM 1995
25% 2000 41%가 34).

30) , , , , 1998.3.
6 , , SWIP 6
, 2000.2, pp.91-124.
31) , , 2000.10
32) / / (1998.3)
33)

TM 가 ,
TM 가 가 .

2)

1999 5 1 7
(,) 56% . 2000
가 가
35). TV
, TV가 가 5 13
, 5 .

. e-Business 4

Customer(), Cost(), Competition(), Channels() 4C .

36). e-business

가

3)

. , 60%가
. 37).

34) Datamonitor, European General Insurance Distribution, 1997 .

35) Ian Mulligan, e , 6 , 2000. 8

36) Mulligan (2000), p. -6

가
 가
 가
 가
 가

* (Credit Agricole())
 Credit Agricole 1996. 1. 1 8,164
 74,000 3,860 (450
) . 254 (30
) (33%가)
 Credit Agricole
 (1986) (1991)
 Predica() Credit Agricole
 , Credit Agricole

37) , , , 1996, p.263 .

1996 2 ()
 , , 3
 (4%)
 600 350
 11,300 100 ()
 12) 1.2 (1,500) .
 Credit Agricole Predica 1991
 Pacifica . Predica 가
 Pacifica Credit Agricole
 (58%)
 (98%)
 18%(30%) 160
 (19) . () :

< -18> 가 , , ,

(: %)

		1990	1991	1992	1993	1994	1995
		1.0	1.2	1.4	1.6	1.8	2.0
		46.0	45.8	45.6	45.4	45.2	45.0
		19.0	18.0	18.3	18.6	19.0	20.0
		33.0	32.6	32.2	31.8	31.4	31.0
		0	0.4	0.8	1.2	1.6	2.0
		64.0	63.2	62.4	61.6	60.8	60.0
		20.0	19.8	19.6	19.4	19.2	19.0
		14.0	14.0	14.0	14.0	14.0	14.0
		1.0	1.8	2.6	3.4	4.2	5.0
		4.0	3.6	3.2	2.8	2.4	2.0
		74.0	72.0	70.0	68.0	66.0	64.0
		11.0	11.2	11.4	11.6	11.8	12.0
		9.0	10.2	11.4	12.6	13.8	15.0
		5.0	4.6	4.2	3.8	3.4	3.0
		72.0	68.2	66.4	64.6	62.8	61.0
		8.0	7.8	7.6	7.4	7.2	7.0
		0	0.4	0.8	1.2	1.6	2.0
		72.0	70.4	68.8	67.2	65.6	64.0
		12.0	13.0	14.0	15.0	16.0	17.0
		16.0	15.6	15.2	14.8	14.4	14.0
		0.0	0.2	0.4	0.6	0.8	1.0
		60.0	59.6	59.2	58.8	58.4	58.0
		21.0	21.2	21.4	21.6	21.8	22.0
		17.0	16.6	16.2	15.8	15.4	15.0
		1.0	1.2	1.4	1.6	1.8	2.0
		2.0	2.2	2.4	2.6	2.8	3.0
		11.0	11.4	11.8	12.2	12.6	13.0
		86.0	85.2	84.4	83.6	82.8	82.0
		3.0	4.6	6.2	7.8	9.4	11.0
		5.0	4.4	3.8	3.2	2.6	2.0
		77.0	76.0	70.0	70.0	69.0	68.0
		11.0	11.0	11.0	11.0	11.0	11.0

:Datamonitor, European General Insurance Distribution, 1996.

38).

60%

65%

1992

1992 87%

1997 78%

25%

1997

22%

10%

가

가

1997

7%

(Strukturvertrieb : 가

) ,

가

. 1997

3%

6%

1992

5 200%

가

. 1997

85%가
가

15%

가 . , 1995

가 가
가 가

가

가 가

IV.

1.

가.

. , 가 ()

(. 1. .).

가가 가 , ' 가

가 가

DB

가 가?

가

(/)

, DB 가 가

() ()

가 가

2 3

, DB

가

30 30 , 20

20

, 30 , ,

가 , ,

/ 3가

가? , /

가 (/) 가?

, / 가

(/) 가? 3가

가

2.

가.

5가

5가 ()

lead-generation() , lead-qualification() , selling & proposing() , close of sale() , post-sales fulfillment & support()

39).

- < >

4가

, <A > () 가

() (

, , , ,)

39) Friedman, Lawrence G. and Timothy R. Furey, The Channel Advantage, Butterworth-Heinemann, pp. 182-184 .

7

,

DM(Direct Mail), TM(Tele-Marketing), CM(Cyber Marketing),

(), (), (),
()

, , 가 6
. <A > 가 7

, <C > 가

8 (, , , ,
, , ,) 8 (,
, , , / , ,
,) ,
, , , 가

, <D > 가

8가 (, , , , ,
, , / , /) ,
, , 8 16
가 . <A> , ,
<C> <D>

/ / /

2000 7 20 8 5

3 (, , SK) 3
(, ,) 40).

5가 (가 2가) 390
 355 가 ()
). 41
 304 .

< IV-1> /

			()
가 가	33/ 45	33/ 45	66/ 90 (73%)
가	35/ 45	32/ 45	67/ 90 (74%)
가	37/ 45	34/ 45	71/ 90 (79%)
가	50/ 60	50/ 60	100/ 120 (83%)
	155/ 195	149/ 195	304/ 390 (78%)

3.

가. 가 - < -1>

1)

가) ,

40) (), (SK), (),
 (), () .

) ,
) ,
) ,
)

가) ,
) =) ,
) ,
)

가 1, 2 (.
) 4, 5 가 3,
4, 5 가 가 .

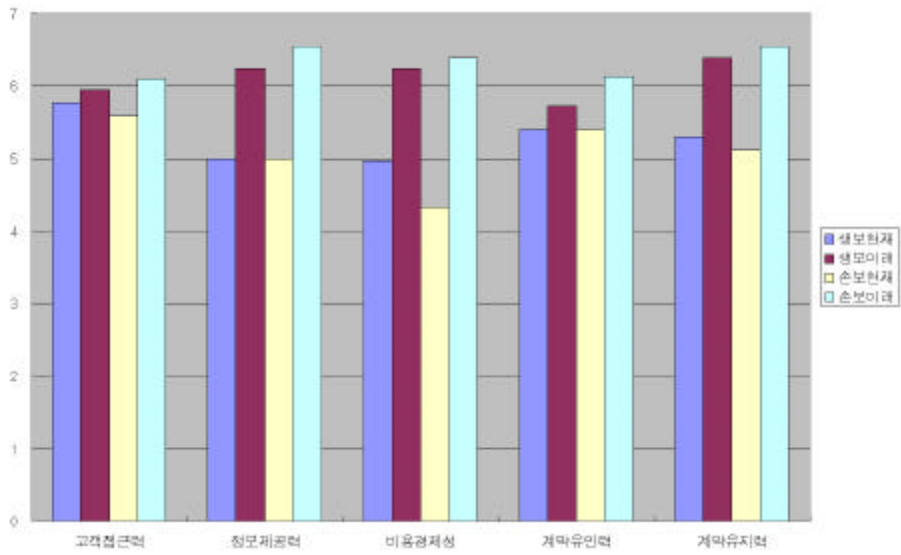
2)

가) ,
) ,
) ,
) ,
)

가) =) ,
) ,
) ,
)

2, 5, 4, 가 1,

< -1 >



3)

가

, , , 가 가 가
 (, 2.09), (, 1.55), (,
 1.43) 가

< IV-2> 가 () 가

(,)	(5.76, 5.94)	(5.58, 6.10)
(,)	(5.00, 6.24)	(5.00, 6.55)
(,)	(4.97, 6.24)	(4.33, 6.39)
(,)	(5.39, 5.73)	(5.39, 6.12)
(,)	(5.30, 6.39)	(5.12, 6.55)

가

1)

DM, TM, CM, , , , , 8
 , , , ,
 가 . 5 (7
) 가 가 .
 (5.03), (5.00), (4.91) 가
 . CM 가 5.66

가 , DM

(4) 가 .
 3.43 가 .
 TM 5 DM . TM
 4 가 .
 CM .
 CM 4 4 .
 CM
 가 .

가 .
 5 4 가 가
 4
 가 가
 가 4.64, (CM(4.51
 3.52, 가 4.04) 가 가
 3.38 3.95)

2)

5.72
 가 , (5.47), CM(5.09),
 (5.69), (5.56) 가 가 .
 , DM 4 4
 . TM DM
 4 4 . CM
 4 , ,
 가 . , ,
 (5), 가
 가 . 가 .
 , 4 가 .
 가 가
 가 가
 3.80, 가 4.67) 가 가 5.16 (

3) /
 5 가
 , 가 가
 가 . CM TM
 가
 . TM CM
 가 .
 CM , TM
 .

< IV-3> 가 - ()

						, 가
DM	3.97 (3.31)	3.97 (3.75)	4.09 (4.22)	3.43 (3.09)	3.97 (3.09)	3.89 2.93 3.40 (3.49 2.51 3.17)
TM	3.97 (4.13)	4.29 (4.00)	4.83 (4.31)	4.31 (4.13)	4.20 (3.72)	4.32 3.25 3.77 (4.06 2.94 3.67)
CM	4.03 (3.44)	4.63 (4.31)	5.66 (5.09)	3.74 (3.44)	4.49 (3.03)	4.51 3.38 3.95 (3.86 2.77 3.50)
	3.86 (4.91)	4.54 (5.47)	3.86 (3.97)	4.40 (5.31)	4.51 (5.06)	4.23 3.19 3.70 (4.94 3.61 4.48)
	5.00 (5.72)	5.03 (5.19)	3.26 (3.56)	5.00 (5.69)	4.91 (5.47)	4.64 3.52 4.04 (5.13 3.77 4.64)
	4.17 (5.72)	4.17 (5.39)	3.17 (3.50)	4.31 (5.63)	4.20 (5.56)	4.00 3.03 3.49 (5.16 3.80 4.67)
	3.39 (4.00)	3.34 (4.34)	3.09 (2.75)	3.40 (4.19)	3.23 (4.03)	3.29 2.49 2.87 (3.86 2.83 3.50)
	3.34 (2.91)	3.23 (3.00)	3.54 (3.69)	3.14 (2.91)	3.26 (3.03)	3.30 2.49 2.88 (3.11 2.24 2.82)
	3.97 (4.27)	4.15 (4.43)	3.94 (3.89)	3.97 (4.30)	4.10 (4.12)	4.02 (4.20) 3.06 (3.81)

(A, B) A , B 가
 가

2) 8 가
 (5.65) . 가
 (4.85) (4.82) ,
 (3.53) , (5.94) 가
 .
 ()
 4
). ,

< IV-5 >

	5.00	4.65	4.82	0.97	5.94
	5.38	5.12	3.88	2.74	4.53
	4.41	4.79	4.41	2.85	4.32
	3.38	4.79	4.35	1.71	4.44
	5.00	4.59	4.85	3.24	4.26
	5.65	5.29	4.76	3.53	5.03
	3.79	4.00	4.71	2.29	3.59
	3.47	4.35	4.68	2.97	4.26

가

1)

< IV-6>

	2.04	4.75	6.21	2.62	6.38
	3.00	4.58	4.58	3.42	5.50
	3.92	4.92	4.67	3.04	4.88
	3.29	4.75	4.96	2.75	4.67
	4.79	4.63	4.54	3.33	3.83
	3.37	4.83	5.00	3.08	4.50
/	3.79	4.79	4.17	3.50	4.08
/	3.75	4.67	4.04	3.42	4.21
	2.55	4.94	5.00	2.90	5.00
	2.23	4.97	4.96	2.00	5.81
	2.94	5.32	4.22	2.61	4.87
	2.26	4.42	4.45	2.58	5.00
	3.42	4.58	3.81	3.87	4.65
	2.65	4.61	4.52	3.00	4.71
	2.87	4.61	4.70	3.00	4.68
	2.00	4.94	4.81	2.29	5.58

< IV-7>

	2.62	4.88	6.27	2.65	5.73
	2.46	4.12	4.38	2.62	4.96
	2.85	5.35	4.69	2.96	4.77
	2.62	4.92	4.92	2.92	4.81
	3.38	5.15	5.04	3.38	4.73
	3.77	5.54	5.69	3.31	5.04
/	3.96	4.77	4.96	3.65	4.23
/	3.92	4.42	4.50	3.65	4.31
	2.29	5.13	5.42	2.96	5.29
	2.17	4.92	5.38	2.25	5.71
	2.21	5.17	4.75	2.46	4.88
	2.79	4.54	5.04	2.87	5.25
	3.21	4.88	4.04	2.92	4.67
	2.75	4.88	3.38	2.75	4.96
	2.37	4.50	4.46	2.92	4.96
	2.79	4.71	4.29	2.75	5.38

4.

가.

LINMAP(Linear Programming Technique for Multi-dimensional Analysis of Preference)

41).

1) 1

8

5

가

5

가

가

$$\text{Min } d_i^2 = \sum_j w_j (Z_{ij} - Z_{ij}^*)^2,$$

$$d_i =$$

$$w_j = \text{가}$$

$$Z_{ij} =$$

$$Z_{ij}^* = \left(\frac{\sum_i Z_{ij}}{n} \right)$$

$$i = 1 \dots 8 \left(\text{가} \right)$$

$$j = 1 \dots 5 \left(\text{가} \right)$$

41) LINMAP, Art of Management Decision, 2000, pp.208-209

w_j, Z_{ij}, Z_{ij}

2) 2

가

가

$$\text{Max } d_i = \sum_j w_j (Z_{ij} - Z_{ij}^*),$$

$$\text{s.t. } Z_{ij} - Z_{ij}^* \geq \Omega$$

$$d_i =$$

$$w_j = \text{가}$$

$$Z_{ij} =$$

$$Z_{ij}^* = \left(\quad / \quad \right)$$

$$i = 1..8(\quad)$$

$$j = 1..5(\quad)$$

$$\Omega = 1 \text{ 가}$$

1

1 가

w_j, Z_{ij}, Z_{ij}

1

. () ()
 A , B A 2 , C A 3
 , D 4 , F .

1) - < -1>

가)

DM, CM, , / CM, ,
 CM A()

A, B

- , DM, TM, CM, ,
- , DM, TM, CM, ,
- CM, DM, TM
- , DM, TM, ,
- / - CM, DM, TM, ,
- DM
- , DM, TM, CM, ,
- CM, DM, TM,

가

< IV-8>

가 -

	DM	TM	CM					
	B	B	B	B	A	B	C	C
	B	B	B	B	A	B	D	D
	B	B	A	C	F	D	C	C
	B	B	C	A	B	B	C	C
/	B	B	A	B	C	C	C	B
	A	C	C	D	F	F	F	F
	B	B	B	B	A	B	C	C
	B	B	A	B	D	C	C	C

)

1

가 .

DM

A

가 . DM

B

42).

TM

B

가 .

CM

A

43). CM

B

44).

42)

가

가

DM

가

가

가

/

가

1

가

43)

CM A

44)

CM F

2) - < -2>

가

가 .

가)

, TM , DM,
 , CM .
 A,B 8
 , 7가
 , TM, DM, CM,
 DM, TM, CM, , TM, CM
 , TM,
 DM CM . CM, DM,
 TM 가 45).

< IV-10>

가 -

	DM	TM	CM					
	B	A	B	B	B	B	B	B
	B	A	B	B	B	B	B	C
	B	A	B	C	F	F	B	C
	A	B	B	D	F	F	B	B
	C	A	B	C	F	F	C	F
	C	B	C	A	B	B	C	F
	A	C	B	F	F	F	F	C
	B	B	A	F	F	F	C	C

45)

DM, CM .

)

가

< IV-11 >

가 -

	DM	TM	CM					
	B (C)	B	A	B (C)	C	C	B (D)	B (D)
	A (B)	B	B (A)	D (B)	F (C)	F (C)	B (F)	B (D)
	B	B	A	C (B)	D	D (C)	B (D)	B (D)
	B	B	A	C	D (F)	D	B (F)	B (F)
	B (A)	B	A (B)	B	D	D (B)	C (B)	C (B)
	B	B	A	B (C)	C (F)	C (D)	B (F)	C (F)
/	C (A)	A (B)	B (C)	D (B)	F	F (C)	D	F (D)
/	D (A)	A (B)	C	F (B)	F	F (C)	F (C)	F (C)
	B	B	A	B (C)	C (F)	C (D)	B (F)	B (F)
	B	B	A	B	C	C	B (D)	B (D)
	B (A)	B	A (B)	C (B)	D (C)	D (B)	B (C)	B (C)
	B (A)	B	A (B)	C (B)	D	D (C)	B (F)	B (D)
	A (D)	B (F)	B (F)	C (A)	D (F)	D	B (F)	B (F)
	B (A)	B	B	C (B)	D (F)	D (C)	A (F)	B (D)
	A (B)	B	B (A)	C (B)	D (F)	D (C)	B (F)	B (D)
	A (B)	B	B (A)	B	C (B)	C (B)	B (D)	B (C)

DM / , / A
C D .
D A

TM
가 , CM 가 .
C .
A , .

3) 가
1 /

가
가 .

. 2

2 5가 /

가

(가) 10
10 . A /

1) - < -3>

가)

가

1 DM, , ,
. TM , / , ,
. CM TM

TM

가

< IV-12>

가 -

	DM	TM	CM					
	-	-	-	-	A	-	-	-
	-	-	-	-	AA	-	-	-
	-	-	AAAA	-	-	-	-	-
	-	AA	AA	-	AAAA	-	-	-
/	-	AA	AAAA	-	-	-	-	-
	-	AA	AAAA	AA	-	-	-	-
	-	-	-	-	A	-	-	-
	-	AA	AAAA	-	-	-	-	-

A

, ,

, ,

2 1

, , CM, /

CM CM, CM, ,

CM 2 1 .

(1) (2) 가

가 .

)

, 가 DM, , ,

TM , , , ,

가 . TM 가

CM , .

(/ , /), ,

, , A

가

가 .

, 가

, , 가

) (가) 가
 . CM 가 , ,
 (AAAA)
 . CM , , ,
 , , CM

< IV-13> 가 -

	DM	TM	CM					
	-	-	-	-	A	-	-	-
	-	-	A	-	-	-	-	-
	-	AA	AA	-	-	-	-	-
	-	AA	AAAA	-	-	-	-	-
	-	AA	AA	AA	-	-	-	-
	-	AA	AA	-	-	-	-	-
/	-	AA	AAAA	AA	AAAA	-	-	-
/	-	AA	AAAA	AA	AAAA	-	-	-
	-	AA	AAAA	-	-	-	-	-
	-	-	A	-	A	-	-	-
	-	-	AAAA	AA	AAAA	-	-	-
	-	AAAA	AAAA	AAAA	-	-	-	-
	-	AA	AAAA	AA	AAAA	-	-	-
	-	AAAA	AAAA	AA	-	-	-	-
	-	AA	AAAA	AA	-	-	-	-
	-	-	-	-	A	-	-	-

2) - < -4>

가)

가 2

DM, ,

CM

, TM

AA

< IV-14>

가 -

	DM	TM	CM					
	-	-	-	AA	-	-	-	-
	-	-	-	AAAA	AAAA	AAAA	-	-
	-	-	-	AAAA	AAAA	AAAA	-	-
	-	AA	-	AAAA	AAAA	AAAA	-	-
	-	-	-	AAAA	-	-	-	-
	-	-	-	AA	-	-	-	-
	-	AA	AA	AAAA	-	-	-	-
	-	AA	-	AAAA	-	-	-	-

1 2

가

(1 TM, 2), (1 TM, 2

/ /), (1 TM, 2 / /

), (1 TM, 2),
 (1 DM, 2), (1, 2),
 (1 CM, 2) .
)
 가 DM,
 ,
 CM 가 . TM AA, /
 A . , , .
 , , ,
 . , , ,
 .

< IV-15> 가 -

	DM	TM	CM					
	-	-	-	-	A	A	-	-
	-	-	-	AAAA	AAAA	AAAA	-	-
	-	-	-	AAAA	-	-	-	-
	-	-	-	AAAA	-	-	-	-
	-	-	-	-	A	A	-	-
	-	-	-	-	A	A	-	-
/	-	A	-	AAAA	-	-	-	-
/	-	-	-	AAAA	AAAA	AAAA	-	-
	-	-	-	A	A	A	-	-
	-	-	-	A	A	A	-	-
	-	-	-	AAAA	-	-	-	-
	-	-	-	A	A	A	-	-
	-	AA	-	AAAA	AAAA	AAAA	-	-
	-	-	-	AAAA	AAAA	AAAA	-	-
	-	-	-	AAAA	AAAA	AAAA	-	-
	-	-	-	AAAA	AAAA	AAAA	-	-

3) 가

2 2 1 . ,
 2 1 ,
 , CM, /
 CM, CM, ,
 CM 2 1 .
 (1) (2) 가
 가 .

가 DM, , ,
 .

2 1 가 . ,
 가 (1 TM, 2),
 (1 TM, 2 / /), (1
 TM, 2 / /), (1 TM, 2
), (1 DM, 2),
 (1, 2), (1 CM, 2)

가 DM,

CM 가 . TM AA, /
 A . , ,
 .

가

(e.g.)

가 가 .

V.

1.

(Normative)
 (Anticipatory)
 (Scenario Analysis Technique) 46).

가.

(Description of a future situation together with the progression of events leading from the base situation to the future situation)

Snapshot (Situational Scenario or Image),
 (Developmental Scenario),
 가 가

46) Michel Godet, Scenarios and Strategic Management, Butterworths, 1987 .

(Trend-based Scenario),

(Contrasted Scenario)

가 5

(A)

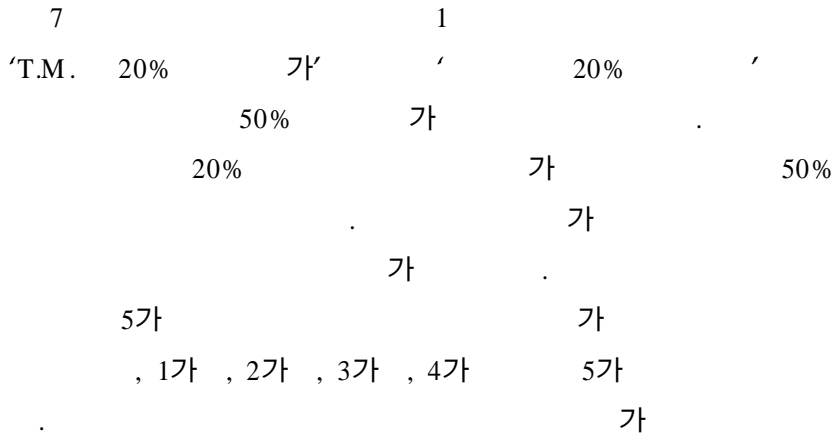
. Event

2005 5가

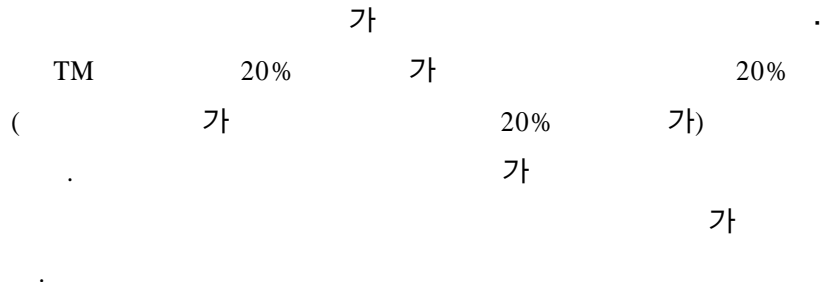
5가 가 , 가 가
20%
가

< V-1> 가

Event			
Event A	(TM) 20% 가	0.65	0.59
Event B	가 20%	0.31	0.28
Event C	가 20%	0.40	0.41
Event D	20% 가	0.48	0.58
Event E	() 20%	0.68	0.58



가 . , $P(i, j, k, l, m) = P(i) \cdot P(j) \cdot P(k) \cdot P(l) \cdot P(m)$



(Conditional Probability)

47).

47)

40

10

30

, $P(A,B) = P(A) \cdot P(B:A) = P(B) \cdot P(A:B),$

$P(A',B) = P(A') \cdot P(B:A') = P(B) \cdot P(A':B),$

(A, D)

0.36, 0.80

P(D:A), P(D:A')

< V-2>

	A	B	C	D	E
A		0.73, 0.24	0.85, 0.17	0.49, 0.70	0.49, 0.99
B	0.35, 0.61		0.06, 0.54	0.30, 0.49	0.29, 0.70
C	0.52, 0.52	0.52, 0.25		0.38, 0.50	0.39, 0.69
D	0.36, 0.80	0.46, 0.32	0.45, 0.42		0.39, 0.80
E	0.51, 0.99	0.64, 0.35	0.67, 0.41	0.55, 0.68	

< V-3>

	A	B	C	D	E
A		0.74, 0.18	0.66, 0.34	0.39, 0.86	0.57, 0.61
B	0.35, 0.53		0.31, 0.39	0.21, 0.64	0.30, 0.56
C	0.46, 0.54	0.45, 0.26		0.31, 0.68	0.49, 0.50
D	0.38, 0.87	0.43, 0.38	0.44, 0.55		0.61, 0.54
E	0.56, 0.62	0.63, 0.25	0.69, 0.30	0.61, 0.54	

< V-4>

$$P(A') = 1 - P(A)$$

< V-4 >

a1	P(A, B)	0.2275	0.2065
a2	P(A', B)	0.2135	0.2173
a3	P(A, B')	0.4225	0.3835
a4	P(A', B')	0.1365	0.1927
a5	P(A, C)	0.3380	0.2714
a6	P(A', C)	0.1820	0.2214
a7	P(A, C')	0.3120	0.3186
a8	P(A', C')	0.1680	0.1886
a9	P(A, D)	0.2340	0.2242
a10	P(A', D)	0.2800	0.3567
a11	P(A, D')	0.4160	0.3658
a12	P(A', D')	0.0700	0.0533
a13	P(A, E)	0.3315	0.3304
a14	P(A', E)	0.3465	0.2542
a15	P(A, E')	0.3185	0.2596
a16	P(A', E')	0.0035	0.1558
a17	P(B, C)	0.1612	0.1260
a18	P(B', C)	0.1725	0.1872
a19	P(B, C')	0.1488	0.1540
a20	P(B', C')	0.5175	0.5328
a21	P(B, D)	0.1426	0.1204
a22	P(B', D)	0.2208	0.2736
a23	P(B, D')	0.1674	0.1596
a24	P(B', D')	0.4692	0.4464
a25	P(B, E)	0.1984	0.1764
a26	P(B', E)	0.2415	0.1800
a27	P(B, E')	0.1116	0.1036
a28	P(B', E')	0.4485	0.5400
a29	P(C, D)	0.1800	0.1804
a30	P(C', D)	0.2520	0.3245
a31	P(C, D')	0.2200	0.2296
a32	P(C', D')	0.3480	0.2655
a33	P(C, E)	0.2680	0.2829
a34	P(C', E)	0.2460	0.1770
a35	P(C, E')	0.1320	0.1271
a36	P(C', E')	0.3540	0.4130
a37	P(D, E)	0.2640	0.3538
a38	P(D', E)	0.3536	0.2268
a39	P(D, E')	0.2160	0.2262
a40	P(D', E')	0.1664	0.1932

가

5가

가

32가

< V-5> 가

	A	B	C	D	E
b1	1	1	1	1	1
b2	0	1	1	1	1
b3	1	0	1	1	1
b4	1	1	0	1	1
b5	1	1	1	0	1
b6	1	1	1	1	0
b7	0	0	1	1	1
b8	1	0	0	1	1
b9	1	1	0	0	1
b10	1	1	1	0	0
b11	0	1	0	1	1
b12	0	1	1	0	1
b13	0	1	1	1	0
b14	1	0	1	0	1
b15	1	0	1	1	0
b16	1	1	0	1	0
b17	0	0	0	1	1
b18	1	0	0	0	1
b19	1	1	0	0	0
b20	0	1	0	0	1
b21	0	1	1	0	0
b22	0	0	1	0	1
b23	0	0	1	1	0
b24	0	1	0	1	0
b25	1	0	1	0	0
b26	1	0	0	1	0
b27	1	0	0	0	0
b28	0	1	0	0	0
b29	0	0	1	0	0
b30	0	0	0	1	0
b31	0	0	0	0	1
b32	0	0	0	0	0

. - < IV>

32 (b1 b32) 가
 가? a1 a40 40 b1
 b32 32 .
 a1 (0.2275) P(A, B) A B
 A B가
 1 , b1+b4+b5+b6+b9+b10+b16+b19 .
 , a1 = b1+b4+b5+b6+b9+b10+b16+b19 .
 가 ai .

a2 = b2+b11+b12+b13+b20+b21+b24+b28,
 ...
 a40 = b10+b19+b21+b25+b27+b28+b29+b32.

b1...b40

$$\text{Min } \sum_i (a_i - \sum_j b_j)^2$$

s.t. b_i = 1,
 0 b_i 1, for every i

LINGO(www.lindo.

com freeware) . (<
 IV-1>, < IV-2>).

<V-6>

, 가
 b27(17.87%), b18(9.35%), b26(7.75%)

b27(14.82%), b30(9.17%), b26(8.07%)

1)

A(TM 20% 가)
 B, C, D, E 가 가

2005 TM 20%
 가 , 20% ,
 20% 가 , 20%
 가 가 .
 가 TM 20% 가
 20%

20% 20%

가 .
 20% 가 .
 TM 가
 가 TM 가
 < V-1>
 가 TM 0.65
 0.68 .
 TM 가 가
 .
 20% 가 (0.0000).

2)

가 , , TM 20%

20% 가

20% 가

TM 가

20% 0.00% , 1.29%

3) 가

TM 가, 가 , TM 가,

가

가 3가 가

가

TM 가가

가 3

가 TM

TM 가

48)

49)

가

48) 1990 2000

가 (77% 63%), TM(1%

17% 가) (4% 7% 가), DM(2% 2%)

. Datamonitor, European General Insurance Distribution, 1997 .

49)

. Datamonitor, European Life Insurance and Pension distribution 1996, 1996 .

2.

() ,
 , 가 . , ,
 , , , .

가.

가 가
 .
 ,
 가 .

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DM TM

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, , , ,

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1)

가 가
 , 가
 . 1990
 AXA (AXA Direkt Versicherung)
 AXA 가 , AXA
 Sicherdirekt Versicherung AG.
 가 , 가
 .
 .

2)

TM CM
 가 가
 가 .

3)

가 (Cross-Selling)가
 가 .

4)

(Product Life Cycle)

가
50).

5)

가 ,

7.5%,

6.5%

. 가

가

1) AXA()

1816 ()

AXA

50) 가

가 가
DM, TM

100

()

230 (47) 70 1995 . 3,200
, 4,700
,
,
:

. AXA

Assurance(), Alpha Assurances(/
, Uni Europe(), AXiva(
, Direct Assurance(TM) 가 .

2) Allstate Corporation

Allstate . 1931 (Sears Roebuck Coupon)
(1940) (1957) 가 .
1933 (Chicago World's Fair) 1960
Sears Sears
. 1960
Neighborhood Sales Office(14 20
(Agent/ Office)) 1970 () . Sears

. 1980 Neighborhood Office Agent(NOA) (1
 3
 , ,)
 . 1990
 Neighborhood Exclusive Agent(
)
 . Allstate
 . Allstate ()

All State Corporation
 All State Insurance Co.
 (Marketing Companies)

(A) Brand

All State Brand	All State Indemnity Brand	Life Brand	International Canada(NL) Japan(L,NL) Korea(L) Germany(NL) ⁵¹⁾ SE ASIA(L) China(Rep Office)
Standard Auto Property Life(ALIC)	Non-Std Auto	Life Annuity Pensions S.S ⁵²⁾ S.A.C. ⁵³⁾	
Commercial Auto			

51) Direct Response

52) Structural Settlements

53) Supplemental Accidental Credit(DR)

(B) Channels

All State Ins. Co	All State Agents	Banks
All State Agents	Ind't Agents	Security Broker
Independent Agents	All S. Indemnity co	Direct Response
(Rural)	Deerbrook Insurance	Broker
Life Specialists		Ind't Agents
		Northbrook Life ⁵⁴⁾
		Grenbrook Life ⁵⁵⁾
		Linclon Benefit Life ⁵⁶⁾
		Surity Life ⁵⁷⁾
		ALIC ⁵⁸⁾

3.

V-7>). , (<
) 가 . (
) ,
 가 . 가 가
 . 가 가

54) Annuities - Dennwitter Securities
 55) Annuities - Banks
 56) Brokers
 57) Independent Agents
 58) Pensions, Structural Settlements, Direct Response

59). 2
가

< V-7 >

	4.21 (7)	4.67 (4)
	5.36 (2)	4.52 (5)
	5.18 (4)	4.42 (7)
	5.64 (1)	5.39 (1)
가	5.36 (2)	4.76 (2)
	4.55 (5)	4.48 (6)
	4.30 (6)	4.76 (2)
	3.27 (8)	2.88 (8)

가

59)

가 1

()

가

, 가

가

가

TM

가

가

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1.

가.

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가

가

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가

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가

(satisfy demand)
(stimulate demand)

- Qu o Approach Zero-Base Approach Status-

. 가 Mixed Approach

- 가 가 .
(Effectiveness), (Equity), (Efficiency)
(3-E Perspective)

가

- .

가 가

- .

가

, ,

.

- (Supplementary Mix), (Competitive Mix),
 (Supportive Mix)
 (Hybrid Mix)
 가

- 가 가
 (, ,) , (, , ,
), , , ,
 , , , ,
 가, 가,

- ()
 () ,
 , , , , , ,
 가
 , ,

()

1997

가

TM, DM

Cyber Marketing

가

가

1996

가

1997

1983

2%

가

가 1999 3.7%

,
 390 4가 304 .
 - 가
 가 , ,
 가 가 .
 - 가 가 .
 , , 가 .
 , , 가 .
 CM 가 5.66 .
 가 가 가
 가 가 CM
 - 가 ,
 , CM,
 가 가 .
 가 가
 가 가
 - 5 가 가
 , 가 .
 가 가 CM TM
 가

TM CM

가 .
CM ,

TM

- 가

- 8

- 가 .

가 , 가 가
가

가 가

가

가 .

, , , B
가 .

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가 .

- , , ,
TM ,
DM, , CM
· A,B
8 ,
7가 , TM, DM,
CM, . DM, TM, CM, ,
TM, CM .
, TM, , DM
CM .
가 .

- 1 /

가
가 .

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- 2

, TM

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. CM TM

TM

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가 .
A

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가 DM, , ,

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DM,

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. CM , TM ,
 , AA .
 DM, ,
 . CM 가 . TM
 AA, / A . , ,
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- , , ,
 . , , ,

- (Anticipatory)

(Scenario Analysis Technique)

- 2005 'TM 20% 5가 ' 가' ' 20%

가 50% 가
 . 20%
 가 50% . 가
 가

- TM 20% 가 ,
 20% 가 , 20%
 20% 가 TM
 20% 가 20%
 20% 가 .
 가 . TM
 가 .

- 가 TM 가
 . 가
 TM 0.65 0.68
 TM 가 가
 .

- TM
 20% 가 . , ,
 20% 가
 20% 가

가 . TM
 가 . 20% 0.00% ,
 1.29% .

- ,
 TM 가, 가 . TM
 가, , 가 .
 가 가 3가
 가 가 .

- , TM 가가
 , 가 3
 , TM
 TM 가 .

- 가
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- 가 . 가
 가 가

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, 가 .

2.

가.

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5가 가 가

- 2가
가 가 가 .
(가 가)
(가 가 가)
가 가 가 .

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- TM () 가 가
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TM .

가 .

- , ,
CM, / CM, CM,
, CM
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- (1
) TM, TM, TM,
TM, , ,
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- , ,
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가 가
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- /

가가

가

가

가 가

가

少大多小

60)

가

60) (e.g. Allianz) (Allstate) 10

< **I**

-

1.

2.

1.

가. ()

					()			
01					X			
02					X			
03								
04		()	()	X	()	()		
05			X		X	X	X	
06		—	—	—	—	—	—	
07		X	X	X	(*1)	(*1)	()	
08		X	X	(*2)	(*2)	(*2)	X	
09		()	()	X	()	()	()	
10		()	()	X	()	()	()	
11		X	X	X	()	()	X	
12		X	X	X	()	()	X	
13		(*3)	(*3)	(*3)	(*3)	(*3)	(*3)	
14								
15		X	X	X				
16		X	X				X	
17								
18	*3	*3	*3	*3	*3	*3		
19								
20	()							
21								
22	()	X	X				X	
23		X	X				X	
24		()	X	X			X	
25		X	X				X	
26		X	X	X				
27		()			X			

				()			
28		X	X	X	X	X	X
29							
30		X	X	X	X	X	X
31		*4	*4	*4	*4	*4	*4
32		X	X	X			
33		X	X	X	X	X	X
34		X	X	X			X
35	/	X	X	*5	*5	*5	X
36		X	X	X			
37	/			X			
38	direct mail	X	X	X			
39		X	X	X			X
40		X	X	X			X
41		*6	*6	*6	*6	*6	*6
42		X	X	X			X
43	TV shopping			X	X	X	X
44	personal computer net			X			
45	captain system	X	X	X	X	X	X
46	FAX answer	*7	*7	X	*7	*7	*7
47		*7	*7	X	*7	*7	*7
48		X	X	X	X	X	X
49	tie-up	X	X	X			
50							

: : 가 X : - : 가
 : () :

- *1 :
- *2 : . set (loan)
- *3 :
- *4 :
- *5 : school
- *6 :
- *7 :

()

					()		
01					X		
02					X		
03							
04		()	()	()	X	()	()
05		X	X	X		X	X
06		—	—	—	—	—	—
07		X	X	X	X	X	X
08		(*2)	X	X	(*2)	X	X
09		()	()	()	X	()	()
10		()	()	()	X	()	()
11		()	X	X	X	X	X
12		()	X	X	X	X	X
13		(*3)	(*3)	(*3)	(*3)	(*3)	(*3)
14							
15		X	X	X	X	X	X
16		*2	X	X		X	X
17							
18		*3	*3	*3	*3	*3	*3
19							
20		()					
21							
22		()		X	X		X
23				X	X		X
24		()		X	X		X
25				X	X		X
26		X	X	X	X	X	X
27		()			X		
28		X	X	X	X	X	X
29							
30		X	X	X	X	X	X
31		*4	*4	*4	*4	*4	*4

					()		
32			X	X	X	X	
33		X	X	X	X	X	X
34		X	X	X	X	X	
35	/	*5	X	X	*5	X	*5
36		X	X	X	X	X	X
37	/				X		
38	direct mail		X	X	X	X	
39			X	X	X	X	
40			X	X	X	X	X
41		*6	*6	*6	*6	*6	*6
42		X	X	X	X	X	X
43	TV shopping				X	X	
44	personal computer net				X		
45	captain system	X	X	X	X	X	X
46	FAX answer	*7	*7	*7	X	*7	*7
47		*7	*7	*7	X	*7	*7
48		X	X	X	X	X	X
49	tie-up	X	X	X	X	X	X
50							

: : 가 X : - : 가
 : () :

*1 :

*2 : · set (loan)

*3 :

*4 :

*5 : school

*6 :

*7 :

()

01				
02				
03				
04			()	()
05			X	X
06			—	—
07			X	X
08			X	X
09			()	()
10			()	()
11			X	()
12			X	()
13			(*3)	(*3)
14				
15			X	X
16			X	X
17				
18			*3	*3
19				
20		()		
21				
22		()	X	X
23			X	X
24		()	X	X
25			X	X
26			X	X
27		()		
28			X	X
29				
30			X	X
31			*4	*4

32				
33			X	X
34			X	X
35		/	*5	*5
36				X
37		/		
38		direct mail	X	X
39			X	X
40			X	X
41			*6	*6
42			X	X
43		TV shopping		
44		personal computer net		
45		captain system	X	X
46		FAX answer	*7	*7
47			*7	*7
48			X	X
49		tie-up	X	X
50				

: : 가 X : - : 가
 : () :

- *1 :
- *2 : · set (loan)
- *3 :
- *4 :
- *5 : school
- *6 :
- *7 :

01			X	X	X	X	X
02			X	X	X	X	X
03			X	X	X	X	X
04			X	X	X	X	X
05							
06			—	—	—	—	—
07			X	X	X	X	X
08			X	X	X	X	X
09			X	X	X	X	X
10			X	X	X	X	X
11			X	X	X	X	X
12			X	X	X	X	X
13			X	X	X	X	X
14			X	X	X	X	X
15			X	X	X	X	X
16			X	X	X	X	X
17			X	X	X	X	X
18			X	X	X	X	X
19							
20		()					
21							
22		()	X	X	X	X	X
23			X	X	X	X	X
24		()	X	X	X	X	X
25			X	X	X	X	X
26			X	X	X	X	X
27		()					
28			X	X	X	X	X
29			X	X	X	X	X
30			X	X	X	X	X
31			*4	*4	*4	*4	*4

32			X	X	X	X	X
33			X	X	X	X	X
34			X	X	X	X	X
35		/	X	X	X	X	X
36			X	X	X	X	X
37		/	X	X	X	X	X
38		direct mail	X	X	X	X	X
39			X	X	X	X	X
40			X	X	X	X	X
41			X	X	X	X	X
42			X	X	X	X	X
43		TV shopping	X	X	X	X	X
44		personal computer net	X	X	X	X	X
45		captain system	X	X	X	X	X
46		FAX answer	X	X	X	X	X
47			X	X	X	X	X
48			X	X	X	X	X
49		tie-up	X	X	X	X	X
50							

: : 가 X : - : 가
 : () :

*1 :

*2 : · set (loan)

*3 :

*4 :

*5 : school

*6 :

*7 :

가

		가			
01		()	()	()	()
02		()	()	()	()
03		()	()	()	()
04					
05		—	—	—	—
06					
07					
08				X	X
09					
10					
11		X	X		
12		X	X		
13		*3	*3	*3	*3
14		X	X	X	X
15		()	()	()	()
16		()	()	X	X
17		()	()	()	()
18		(*3)	(*3)	(*3)	(*3)
19					
20	()	—	—	—	—
21		—	—	—	—
22	()		X	X	X
23			X	X	X
24	()	X	X	X	X
25		X	X	X	X
26		X	X	X	X
27	()				
28		X	X	X	X
29					
30		X	X	X	X
31		*4	*4	*4	*4

		가			
32					
33		X	X	X	
34		X	X	X	X
35	/	X	X	*5	*5
36					
37	/			X	X
38	direct mail		X	X	
39				X	X
40			X	X	X
41		*6	*6	*6	*6
42				X	X
43	TV shopping	X	X	X	X
44	personal computer net	X	X	X	X
45	captain system	X	X	X	X
46	FAX answer	*7	*7	*7	*7
47		*7	*7	*7	*7
48		X	X	X	X
49	tie-up	X	X	X	X
50					

: : 가 X : - : 가
 : () :

*1 :

*2 : · set (loan)

*3 :

*4 :

*5 : school

*6 :

*7 :

가

		가				
01		()	()	()	()	()
02		()	()	()	()	()
03		()	()	()	()	()
04						
05		—	—	—	—	—
06						
07						
08		X	X			X
09						
10						
11		X	X	X	X	X
12		X	X	X	X	X
13		*3	*3	*3	*3	*3
14						
15		()	()	()	()	()
16		X	X	()	()	X
17		()	()	()	()	()
18		(*3)	(*3)	(*3)	(*3)	(*3)
19						
20		()	—	—	—	—
21			—	—	—	—
22		()		X		X
23				X		X
24		()	X	X	X	X
25			X	X	X	X
26				X		X
27		()				
28			X	X	X	X
29						
30				X		X
31			*4	*4	*4	*4

		가				
32						
33			X		X	X
34						X
35	/	*5	*5	*5	*5	X
36						X
37	/					
38	direct mail		X		X	X
39						X
40			X		X	X
41		*6	*6	*6	*6	*6
42						
43	TV shopping		X		X	X
44	personal computer net	X	X	X	X	
45	captain system	X	X	X	X	X
46	FAX answer	*7	*7	*7	*7	X
47		*7	*7	*7	*7	X
48			X		X	X
49	tie-up		X		X	X
50						

: : 가 X : - : 가
 : () :

*1 :

*2 : · set (loan)

*3 :

*4 :

*5 : school

*6 :

*7 :

01			X	X	X	X	X
02			X	X	X	X	X
03			X	X	X	X	X
04			X	X	X	X	X
05			-	-	-	-	-
06							
07							
08							
09			*8	*8	*8	*8	*8
10			X	X	X	X	X
11			X			X	X
12			X			X	X
13			*3	*3	*3	*3	*3
14			X	X	X	X	X
15			()	()	()	()	()
16			()	()	()	()	()
17			X	X	X	X	X
18			(*3)	(*3)	(*3)	(*3)	(*3)
19							
20		()	-	-	-	-	-
21			-	-	-	-	-
22		()		X	X	X	X
23				X	X	X	X
24		()	X	X	X	X	X
25			X	X	X	X	X
26			X	X	X	X	X
27		()					
28			X	X	X	X	X
29			X	X	X	X	X
30			X	X	X	X	X
31			*4	*4	*4	*4	*4

32			X	X	X	X	X	X
33			X	X	X	X	X	X
34			X	X	X	X	X	X
35		/	X	X	X	X	X	X
36			X	X	X	X	X	X
37		/	X	X	X	X	X	X
38		direct mail	X	X	X	X	X	X
39			X	X	X	X	X	X
40			X	X	X	X	X	X
41			X	X	X	X	X	X
42			X	X	X	X	X	X
43		TV shopping	X	X	X	X	X	X
44		personal computer net	X	X	X	X	X	X
45		captain system	X	X	X	X	X	X
46		FAX answer	X	X	X	X	X	X
47			X	X	X	X	X	X
48			X	X	X	X	X	X
49		tie-up	X	X	X	X	X	X
50								

: : 가 X : - : 가
 : () :

*1 :

*2 : · set (loan)

*3 :

*4 :

*5 : school

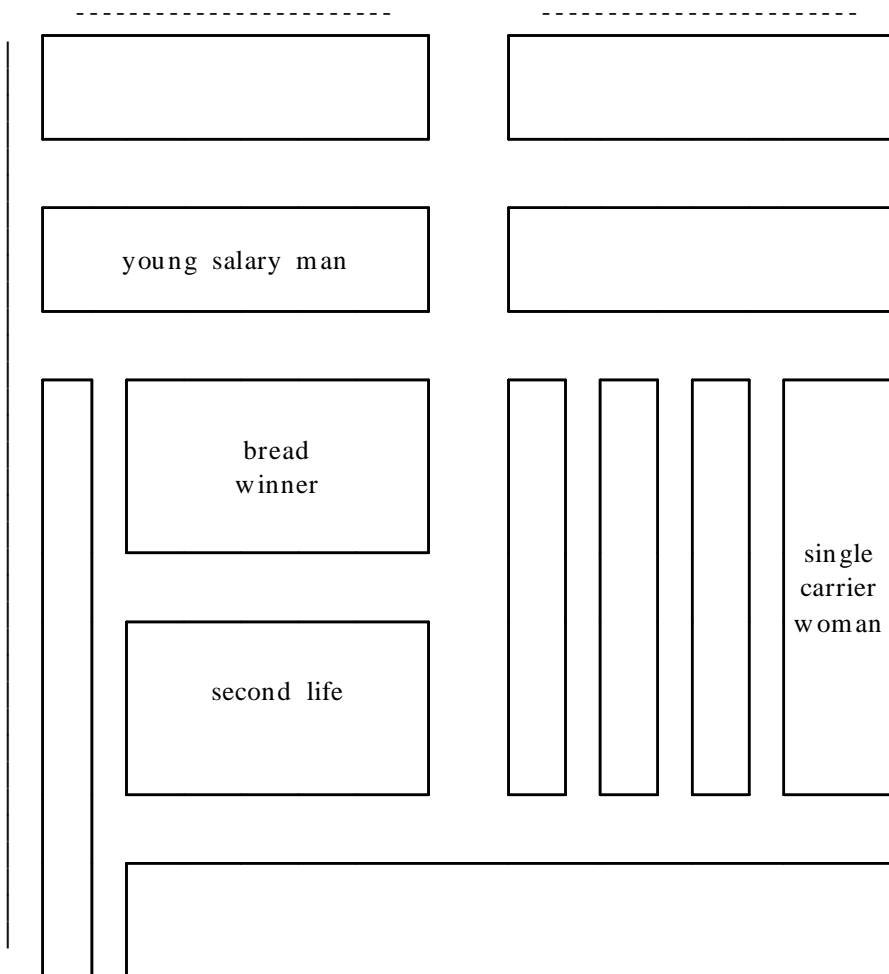
*6 :

*7 :

2.

가.

1)



2)

- 1.
- 2.
- 3.
4. ()

3)

- 1.
- 2.
- 3.
- 4.
5. 가
- 6.

()

							2nd life	
01		X						
02		X				X	X	
03		X	X					X
04		X	X					
05		X	X	X	X	X	X	
06		X	X	X	X	X	X	
07		X						X
08		X	X	X	X	X		
09		X	X	X				
10		X	X	X				
11								X
12								X
13		*1	*1	*1	*1	*1	*1	*1
14		X						
15		X						X
16		X	X	X	X	X		
17		X	X	X				
18		*1	*1	*1	*1	*1	*1	*1
19								
20		()						
21		X	X	X	X	X		
22		()	X	X	X	X	X	X
23			X	X	X	X	X	
24		()	X	X	X	X	X	X
25			X	X	X	X	X	
26			X					X
27		()	X					X
28			X	X	X	X	X	X
29						X	X	
30						X	X	X
31			*2	*2	*2	*2	*2	*2

							2nd life	
32						X	X	
33					X	X	X	X
34			X	X				
35		/				X	X	X
36				X	X			X
37		/				X	X	X
38		direct mail			X	X	X	
39			X	X	X			
40			X	X	X	X	X	
41			*3	*3	*3	*3	*3	*3
42			X	X	X	X	X	X
43		TV shopping	X	X	X	X	X	X
44		personal computer net						X
45		captain system	X	X	X	X	X	X
46		FAX answer	X	X	*4	*4	*4	X
47			X	*4	*4	*4	*4	X
48			*5	*5	*5	*5	X	X
49		tie-up						
50			X	X	X			

: : 가 X : - : 가
 : () :

*1 :

*2 : · set (loan)

*3 :

*4 :

*5 : school

*6 :

*7 :

()

				S.C. W.*6			
01		X					
02		X			X	X	X
03		X	X		X	X	X
04		X	X				
05		X	X	X	X	X	X
06		X	X	X	X	X	X
07		X					X
08		X	X		X		
09		X	X	X			
10		X	X	X			
11							
12							
13		*1	*1	*1	*1	*1	*1
14		X					
15		X					X
16		X	X		X		
17		X	X	X			
18		*1	*1	*1	*1	*1	*1
19							
20		()					
21		X	X	X	X		
22		()	X	X	X		
23		X	X	X	X		
24		()	X	X	X	X	
25		X	X	X	X	X	
26		X				X	X
27		()	X				X
28		X	X	X	X	X	X
29							
30					X	X	X
31		*2	*2	*2	*2	*2	*2

				S.C. W.*6			
32							
33			X	X	X	X	X
34		X	X				
35	/				X		
36			X	X			
37	/				X	X	X
38	direct mail				X		
39		X	X	X			
40		X	X	X			
41		*3	*3	*3	*3	*3	*3
42							
43	TV shopping	X	X	X	X	X	
44	personal computer net		X			X	X
45	captain system	X	X	X	X	X	X
46	FAX answer	X	X	*4	*4	X	X
47		X	*4	*4	*4	*4	*4
48		*5	*5	*5	*5	X	X
49	tie-up						
50		X	X	X	X	X	X

: : 가 X : :

() :

- *1 :
- *2 :
- *3 :
- *4 :
- *5 :
- *6 : single carrier woman

					()
01				X	X
02		X	X	X	X
03					X
04					X
05		X			
06		X			
07		X	X		
08					
09					X
10					X
11				X	X
12				X	X
13		*1	*1	*1	X
14				X	X
15		X	X		
16					
17					X
18		*1	*1	*1	X
19				X	X
20		()		X	X
21				X	X
22		()		X	X
23					X
24		()	X	X	X
25			X		X
26			X	X	X
27		()	X	X	X
28			X	X	X
29			X	X	X
30			X	X	X
31			*2	*2	*2

						()
32			X	X	X	X
33			X	X	X	X
34			X	X	X	X
35		/	X	X	X	X
36			X	X	X	X
37		/	X	X	X	X
38		direct mail				X
39			X	X	X	X
40			X	X	X	X
41			*3	*3	*3	X
42			X	X	X	X
43		TV shopping	X	X	X	X
44		personal computer net	X	X	X	X
45		captain system	X	X	X	X
46		FAX answer	*4	*4	X	X
47			*4	*4	X	X
48			X	X	X	X
49		tie-up	X	X	X	X
50						

: : 가 X : :

() :

- *1 :
- *2 :
- *3 :
- *4 :
- *5 :

						子生者	
01		X	X		X		X
02		X	X		X		X
03		X	X		X		
04		X	X	X	X	X	X
05		X	X	X	X	X	X
06		X	X	X	X	X	X
07						X	X
08		X		X	X	X	
09				X	X	X	
10				X	X	X	
11			X	X	X	X	X
12			X	X	X	X	X
13		*1	*1	*1	*1	X*1	
14		X	X	X	X	X	X
15		X	X				X
16		X	X	X	X	X	
17		X	X	X	X		
18		X	X	*1	*1	X	*1
19		X	X	X	X	X	X
20	()	X	X		X	X	
21		X	X	X	X	X	
22	()	X	X	X	X	X	
23		X	X	X	X	X	
24	()	X	X	X	X	X	
25		X	X	X	X	X	
26		X	X	X	X	X	X
27	()						X
28		X	X	X	X	X	X
29		X	X	X		X	X
30		X	X	X	X	X	X
31		X	X	X	X	X	X

								子生者
32			X	X	X	X	X	X
33			X	X	X	X	X	X
34			X	X	X	X		X
35		/	X	X	X	X	X	X
36			X	X	X	X	X	X
37		/	X	X			X	X
38		direct mail	X	X				X
39			X	X	X	X	X	X
40			X	X	X	X	X	X
41			*3	*3	*3	*3	*3	X
42			X	X	X	X	X	X
43		TV shopping	X	X	X	X	X	X
44		personal computer net	X	X	X	X	X	X
45		captain system	X	X	X	X	X	X
46		FAX answer	*4	*4	X	X	X	*4
47			*4	*4	X	X	X	*4
48			X	X	X		X	X
49		tie-up	X	X	X		X	X
50			X		X	X	X	

: : 가 X : :

() :

- *1 :
- *2 :
- *3 :
- *4 :
- *5 :

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< A >

/ .(30+30)

Direct Mail, Tele Marketing, Cyber Marketing,

, , , , ()

1 3

* 가 300 90

: 02-760-0480

: 02-766-0527

E-Mail : HJJUNG@YURIM.SKKU.AC.KR

3가 53

1. , , , , . ?
 (_____)

1) (가 가?)

가.

.....

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.....

2) (/ / 가?)

가.

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3) (가?)

가.

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4) (가 가?)

가.

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5) (가?)

가.

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2.

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1) (T.M.) 20% 가 .

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100%

2) 가 (M.S.) 20% .

.....

100%

6) (가 /) /
.....
가 가

7) (,)
.....
가 가

8) (가)
.....
가 가

!!!

< B >

.(30+30)

Direct Mail, Tele Marketing, Cyber Marketing,

()

1 3

* 가 300 90

: 02-760-0480

: 02-766-0527

E-Mail : HJJUNG@YURIM.SKKU.AC.KR

3가 53

* ? 1) () 2) ()

** 가 .

1. _____ (가 _____ 가?)

1) DM(Direct Mail,)
.....

2) TM(Tele Marketing,)
.....

3) CM(Cyber Marketing, /)
.....

4) ()
.....

5) ()
.....

6) ()
.....

7) ()
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8) ()
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2. _____ (_____ / _____ 가?)

1) DM(Direct Mail,)
.....

2) TM(Tele Marketing,)
.....

3) CM(Cyber Marketing, /)
.....

4) ()
.....

5) ()
.....

6) ()
.....

7) ()
.....

8) ()
.....

**3. _____ (_____ 가
_____ 가?)**

1) DM(Direct Mail,)
.....

2) TM(Tele Marketing,)
.....

3) CM(Cyber Marketing, /)
.....

4) ()
.....

5) ()
.....

6) ()
.....

7) ()
.....

8) ()
.....

4. _____ (_____ 가 _____ 가?)

1) DM(Direct Mail, _____)
.....

2) TM(Tele Marketing, _____)
.....

3) CM(Cyber Marketing, _____ / _____)
.....

4) ()
.....

5) ()
.....

6) ()
.....

7) ()
.....

8) ()
.....

5. _____ (_____ 가?)

1) DM(Direct Mail,)
.....

2) TM(Tele Marketing,)
.....

3) CM(Cyber Marketing, /)
.....

4) ()
.....

5) ()
.....

6) ()
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7) ()
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8) ()
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/ .(30+30)

/

1 3

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가 300

90

: 02-760-0480

: 02-766-0527

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3가 53

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: () ()

**

1. 가 / ?

1)

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3)

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4)

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5)

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6)

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7) /
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8) /
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3) ()
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4) ()
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5) (/ / /)
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6)

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4. 가 ? ,

1)
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5.

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/ .(30+30)

/

1 3

* 가 300 90

: 02-760-0480

: 02-766-0527

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3가 53

*

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: () ()

**

1. 가 / ?

1) (: 25 35)
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2) (: 36 55)
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3) (:)
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4) (:)
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5) (: 5)
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6) (: 5)
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7)

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8)

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2.

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1) (: 25 35)

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2) (: 36 55)

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3) (:)

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4) (:)

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3.

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(: ?)

1) (: 25 35)

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2) (: 36 55)

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3) (:)

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4) (:)

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5) (: 5)
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6) (: 5)
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7)
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4. 가 ? ,

1) (: 25 35)
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2) (: 36 55)
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4) (:)

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5) (: 5)

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?(?)

1) (: 25 35)

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2) (: 36 55)

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3) (:)
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< D-1 : >

.(30)

Direct Mail, Tele Marketing, Cyber Marketing,

()

1 3

* 가 300 90

: 02-760-0480

: 02-766-0527

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3가 53

*

1.

1)

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2)

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DM	67.71691	33.059	53.216	18.297	54.011	4.4385	55.959	20.293
TM	73.39912	35.525	62.913	28.144	69.941	9.0285	54.246	30.389
CM	69.47533	38.429	37.136	35.392	45.487	10.664	44.99	20.12
	56.1488	23.794	88.842	17.147	86.217	14.332	47.139	38.667
	41.67901	19.88	138.39	20.35	125.64	38.27	39.761	65.913
	63.79048	30.031	106.05	18.174	100.04	20.62	60.129	48.01
	120.3063	75.304	99.284	47.498	100.72	33.535	114.48	59.008
	121.3615	75.616	79.203	48.701	83.556	27.631	111.72	48.726
DM	B	B	B	B	B	A	B	B
TM	B	B	B	B	B	C	B	B
CM	B	B	A	C	A	C	B	A
	B	B	C	A	B	D	B	B
	A	A	F	B	C	F	A	D
	B	B	D	B	C	F	B	C
	C	D	C	C	C	F	C	C
	C	D	C	C	B	F	C	C
< 가 >								
							/	/
DM	78.53648	18.784	18.599	14.702	22.564	12.966	7.7721	6.5211
TM	65.75892	16.258	19.538	17.183	26.024	11.931	11.561	12.414
CM	37.12839	14.404	15.781	9.5787	31.25	6.4148	19.411	21.088
	82.42311	15.127	20.082	23.723	28.623	18.933	9.3221	8.5961
	101.0675	34.605	56.397	57.784	80.893	52.488	41.854	40.232
	110.2072	28.964	36.804	38.706	42.229	34.591	17.964	15.85
	154.6808	58.588	49.865	50.506	34.103	47.853	25.264	22.925
	138.2424	53.221	43.019	41.388	28.338	39.621	22.802	20.764
							/	/
DM	C	B	B	B	A	B	A	A
TM	B	B	B	B	B	B	B	B
CM	A	A	A	A	B	A	C	C
	C	B	B	C	B	C	B	B
	C	C	D	F	D	F	F	F
	C	C	C	D	B	D	C	C
	D	F	D	F	B	F	D	C
	D	D	D	F	B	F	D	C

DM	20.79584	48.116	20.555	16.513	7.7787	9.1261	9.3105	39.418
TM	19.66673	53.932	28.418	25.767	10.324	13.592	12.202	44.49
CM	10.07075	35.514	24.155	21.778	22.835	12.167	9.1811	30.336
	25.60236	57.427	24.03	27.376	2.2261	15.661	16.282	47.176
	46.06068	75.116	44.265	45.169	22.877	36.693	41.794	59.992
	40.54394	73.265	34.632	33.782	8.0759	24.268	27.13	60.125
	66.86446	103.48	55.86	53.518	27.194	43.212	43.844	92.181
	58.54265	92.619	51.395	46.79	27.569	37.483	36.984	83.213
DM	B	B	A	A	D	A	B	B
TM	B	B	B	B	F	B	B	B
CM	A	A	B	B	F	B	A	A
	C	B	B	B	A	B	B	B
	F	C	C	D	F	F	F	B
	D	C	B	C	D	C	C	B
	F	D	C	F	F	F	F	D
	F	D	C	D	F	D	D	C

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DM	105.74	53.502	24.958	30.815	33.684	76.635	8.9034	12.921
TM	102.44	35.051	17.015	46.766	15.518	39.731	22.558	14.479
CM	108.87	54.347	23.234	36.369	25.881	63.029	12.447	12.352
	129.42	44.464	46.413	100.06	40.486	26.937	95.276	61.789
	153.01	60.438	74.157	142.33	62.479	39.119	134.35	98.387
	151.73	60.169	75.487	142.63	65.028	39.069	138.42	101.24
	121.46	38.266	31.5	58.771	40.559	57.551	48.935	34.972
	131.14	81.799	48.946	46.953	62.379	116.01	22.329	30.045
DM	B	B	B	A	C	C	A	B
TM	A	A	A	B	A	B	C	B
CM	B	B	B	B	B	C	B	A
	B	B	C	D	C	A	F	F
	B	B	F	F	F	B	F	F
	B	B	F	F	F	B	F	F
	B	B	B	B	C	C	F	C
	B	C	C	B	F	F	C	C
< 가 >								
							/	/
DM	84.958	29.724	38.06	34.556	35.296	61.288	23.323	17.379
TM	83.397	41.163	38.453	38.573	25.623	44.021	9.8733	5.3452
CM	66.696	37.829	31.471	29.131	23.611	39.44	12.845	14.71
	114.32	93.977	63.641	75.105	45.776	51.346	36.354	35.544
	163.18	136.01	107.39	120.73	83.652	88.866	68.115	63.576
	163.89	138.15	107.02	121.58	84.428	88.701	70.613	66.544
	126.15	52.512	51.644	57.766	47.377	76.408	34.477	21.948
	114.36	37.407	62.43	55.08	63.552	99.771	50.335	37.705
							/	/
DM	B	A	B	B	B	B	C	D
TM	B	B	B	B	B	B	A	A
CM	A	B	A	A	A	A	B	C
	B	D	C	C	B	B	D	F
	C	F	D	D	D	C	F	F
	C	F	D	D	D	C	F	F
	B	B	B	B	C	B	D	F
	B	B	B	B	C	C	F	F

3. 2 -

<	>								
1.									
DM	-1.46	-1.95	0.52	0.59	-2.08	X	-27.5		
TM	-1.46	-1.63	1.26	1.47	-1.85	X	-14.4		
CM	-1.4	-1.29	2.09	0.9	-1.56	X	-8.14		
	-1.57	-1.38	0.29	1.56	-1.54	X	-17		
	-0.43	-0.89	-0.31	2.16	-1.14	?	-4.95	A	
	-1.26	-1.75	-0.4	1.47	-1.85	X	-24.3		
	-2.04	-2.58	-0.48	0.56	-2.82	X	-46		
	-2.09	-2.69	-0.03	0.3	-2.79	X	-45.5		
2.									
DM	-1.03	-1.11	0.31	0.02	-1.7	X	-21.9		
TM	-1.03	-0.79	1.05	0.9	-1.47	X	-8.73		
CM	-0.97	-0.45	1.88	0.33	-1.18	X	-2.49		
	-1.14	-0.54	0.08	0.99	-1.16	X	-11.4		
	0	-0.05	-0.52	1.59	-0.76	O	0.698	AA	
	-0.83	-0.91	-0.61	0.9	-1.47	X	-18.7		
	-1.61	-1.74	-0.69	-0.01	-2.44	X	-40.4		
	-1.66	-1.85	-0.24	-0.27	-2.41	X	-39.8		
3.									
DM	-0.35	-0.27	-2.02	2.13	-0.3	X	-6.08		
TM	-0.35	0.05	-1.28	3.01	-0.07	X	7.046		
CM	-0.29	0.39	-0.45	2.44	0.22	O	13.29	AAAA	
	-0.46	0.3	-2.25	3.1	0.24	X	4.396		
	0.68	0.79	-2.85	3.7	0.64	X	16.48		
	-0.15	-0.07	-2.94	3.01	-0.07	X	-2.87		
	-0.93	-0.9	-3.02	2.1	-1.04	X	-24.6		
	-0.98	-1.01	-2.57	1.84	-1.01	X	-24.1		
4.									
DM	-0.84	-1.14	0.55	0.27	-0.76	X	-12		
TM	-0.84	-0.82	1.29	1.15	-0.53	O	1.146	AA	
CM	-0.78	-0.48	2.12	0.58	-0.24	O	7.39	AA	
	-0.95	-0.57	0.32	1.24	-0.22	O	-1.5		
	0.19	-0.08	-0.28	1.84	0.18	O	10.58	AAAA	
	-0.64	-0.94	-0.37	1.15	-0.53	O	-8.77		
	-1.42	-1.77	-0.45	0.24	-1.5	X	-30.5		
	-1.47	-1.88	0	-0.02	-1.47	X	-30		

5.	/							
DM	-0.6	-0.54	-1.4	2.43	-0.79	X	-6.79	
TM	-0.6	-0.22	-0.66	3.31	-0.56	O	6.333	AA
CM	-0.54	0.12	0.17	2.74	-0.27	O	12.58	AAAA
	-0.71	0.03	-1.63	3.4	-0.25	X	3.683	
	0.43	0.52	-2.23	4	0.15	X	15.76	
	-0.4	-0.34	-2.32	3.31	-0.56	X	-3.59	
	-1.18	-1.17	-2.4	2.4	-1.53	X	-25.3	
	-1.23	-1.28	-1.95	2.14	-1.5	X	-24.8	
6.								
DM	-0.41	-0.33	-0.5	0.27	-0.35	O	-8.3	
TM	-0.41	-0.01	0.24	1.15	-0.12	O	4.823	AA
CM	-0.35	0.33	1.07	0.58	0.17	O	11.07	AAAA
	-0.52	0.24	-0.73	1.24	0.19	O	2.173	AA
	0.62	0.73	-1.33	1.84	0.59	X	14.25	
	-0.21	-0.13	-1.42	1.15	-0.12	X	-5.1	
	-0.99	-0.96	-1.5	0.24	-1.09	X	-26.8	
	-1.04	-1.07	-1.05	-0.02	-1.06	X	-26.3	
7.								
DM	-1.41	-1.84	-0.23	0.43	-1.84	X	-30.6	
TM	-1.41	-1.52	0.51	1.31	-1.61	X	-17.5	
CM	-1.35	-1.18	1.34	0.74	-1.32	X	-11.2	
	-1.52	-1.27	-0.46	1.4	-1.3	X	-20.1	
	-0.38	-0.78	-1.06	2	-0.9	?	-8.03	A
	-1.21	-1.64	-1.15	1.31	-1.61	X	-27.4	
	-1.99	-2.47	-1.23	0.4	-2.58	X	-49.1	
	-2.04	-2.58	-0.78	0.14	-2.55	X	-48.6	
8.								
DM	-0.62	-0.54	-0.8	1.27	-0.68	O	-9.11	
TM	-0.62	-0.22	-0.06	2.15	-0.45	O	4.014	AA
CM	-0.56	0.12	0.77	1.58	-0.16	O	10.26	AAAA
	-0.73	0.03	-1.03	2.24	-0.14	X	1.364	
	0.41	0.52	-1.63	2.84	0.26	X	13.44	
	-0.42	-0.34	-1.72	2.15	-0.45	X	-5.91	
	-1.2	-1.17	-1.8	1.24	-1.42	X	-27.6	
	-1.25	-1.28	-1.35	0.98	-1.39	X	-27.1	

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1.										
DM	1.93	-0.78	-2.12	0.81	-2.41	X	-17.4			
TM	1.93	-0.46	-1.38	1.69	-2.18	X	-4.26			
CM	1.99	-0.12	-0.55	1.12	-1.89	X	1.98			
	1.82	-0.21	-2.35	1.78	-1.87	X	-6.91			
	2.96	0.28	-2.95	2.38	-1.47	?	5.166	A		
	2.13	-0.58	-3.04	1.69	-2.18	X	-14.2			
	1.35	-1.41	-3.12	0.78	-3.15	X	-35.9			
	1.3	-1.52	-2.67	0.52	-3.12	X	-35.4			
2.										
DM	0.97	-0.61	-0.49	0.01	-1.53	X	-10.8			
TM	0.97	-0.29	0.25	0.89	-1.3	X	2.305			
CM	1.03	0.05	1.08	0.32	-1.01	?	8.549	A		
	0.86	-0.04	-0.72	0.98	-0.99	?	-0.34	A		
	2	0.45	-1.32	1.58	-0.59	X	11.73			
	1.17	-0.41	-1.41	0.89	-1.3	X	-7.61			
	0.39	-1.24	-1.49	-0.02	-2.27	X	-29.3			
	0.34	-1.35	-1.04	-0.28	-2.24	X	-28.8			
3.										
DM	0.05	-0.95	-0.58	0.39	-0.91	O	-12.8			
TM	0.05	-0.63	0.16	1.27	-0.68	O	0.296	AA		
CM	0.11	-0.29	0.99	0.7	-0.39	O	6.54	AA		
	-0.06	-0.38	-0.81	1.36	-0.37	O	-2.35			
	1.08	0.11	-1.41	1.96	0.03	X	9.726			
	0.25	-0.75	-1.5	1.27	-0.68	X	-9.62			
	-0.53	-1.58	-1.58	0.36	-1.65	X	-31.3			
	-0.58	-1.69	-1.13	0.1	-1.62	X	-30.8			
4.										
DM	0.68	-0.78	-0.87	0.68	-0.7	O	-6.83			
TM	0.68	-0.46	-0.13	1.56	-0.47	O	6.293	AA		
CM	0.74	-0.12	0.7	0.99	-0.18	O	12.54	AAAA		
	0.57	-0.21	-1.1	1.65	-0.16	X	3.644			
	1.71	0.28	-1.7	2.25	0.24	X	15.72			
	0.88	-0.58	-1.79	1.56	-0.47	X	-3.63			
	0.1	-1.41	-1.87	0.65	-1.44	X	-25.4			
	0.05	-1.52	-1.42	0.39	-1.41	X	-24.8			

5.								
DM	-0.82	-0.66	-0.45	0.1	0.14	O	-10.3	
TM	-0.82	-0.34	0.29	0.98	0.37	O	2.797	AA
CM	-0.76	0	1.12	0.41	0.66	O	9.041	AA
	-0.93	-0.09	-0.68	1.07	0.68	O	0.147	AA
	0.21	0.4	-1.28	1.67	1.08	X	12.23	
	-0.62	-0.46	-1.37	0.98	0.37	X	-7.12	
	-1.4	-1.29	-1.45	0.07	-0.6	X	-28.8	
	-1.45	-1.4	-1	-0.19	-0.57	X	-28.3	
6.								
DM	-0.82	-0.66	-0.45	0.1	0.14	O	-10.3	
TM	0.6	-0.54	-0.17	1.23	-0.3	O	4.265	AA
CM	-0.76	0	1.12	0.41	0.66	O	9.041	AA
	0.49	-0.29	-1.14	1.32	0.01	X	1.615	
	0.21	0.4	-1.28	1.67	1.08	X	12.23	
	0.8	-0.66	-1.83	1.23	-0.3	X	-5.65	
	-1.4	-1.29	-1.45	0.07	-0.6	X	-28.8	
	-0.03	-1.6	-1.46	0.06	-1.24	X	-26.9	
7. /								
DM	0.18	-0.82	-0.08	-0.07	-0.11	O	-5.65	
TM	0.18	-0.5	0.66	0.81	0.12	O	7.476	AA
CM	0.24	-0.16	1.49	0.24	0.41	O	13.72	AAAA
	0.07	-0.25	-0.31	0.9	0.43	O	4.826	AA
	1.21	0.24	-0.91	1.5	0.83	O	16.91	AAAA
	0.38	-0.62	-1	0.81	0.12	O	-2.44	
	-0.4	-1.45	-1.08	-0.1	-0.85	X	-24.2	
	-0.45	-1.56	-0.63	-0.36	-0.82	X	-23.6	
8. /								
DM	0.22	-0.7	0.05	0.01	-0.24	O	-4.23	
TM	0.22	-0.38	0.79	0.89	-0.01	O	8.901	AA
CM	0.28	-0.04	1.62	0.32	0.28	O	15.15	AAAA
	0.11	-0.13	-0.18	0.98	0.3	O	6.251	AA
	1.25	0.36	-0.78	1.58	0.7	O	18.33	AAAA
	0.42	-0.5	-0.87	0.89	-0.01	O	-1.02	
	-0.36	-1.33	-0.95	-0.02	-0.98	X	-22.7	
	-0.41	-1.44	-0.5	-0.28	-0.95	X	-22.2	

9.	(25 -35)							
DM	1.42	-0.97	-0.91	0.53	-1.03	X	-6.84	
TM	1.42	-0.65	-0.17	1.41	-0.8	O	6.285	AA
CM	1.48	-0.31	0.66	0.84	-0.51	O	12.53	AAAA
	1.31	-0.4	-1.14	1.5	-0.49	X	3.636	
	2.45	0.09	-1.74	2.1	-0.09	X	15.71	
	1.62	-0.77	-1.83	1.41	-0.8	X	-3.63	
	0.84	-1.6	-1.91	0.5	-1.77	X	-25.4	
	0.79	-1.71	-1.46	0.24	-1.74	X	-24.8	
10.	(36 -55)							
DM	1.74	-1	-0.87	1.43	-1.84	X	-4.9	
TM	1.74	-0.68	-0.13	2.31	-1.61	X	8.23	
CM	1.8	-0.34	0.7	1.74	-1.32	X	14.47	
	1.63	-0.43	-1.1	2.4	-1.3	X	5.58	
	2.77	0.06	-1.7	3	-0.9	?	17.66	A
	1.94	-0.8	-1.79	2.31	-1.61	X	-1.69	
	1.16	-1.63	-1.87	1.4	-2.58	X	-23.4	
	1.11	-1.74	-1.42	1.14	-2.55	X	-22.9	
11.	()							
DM	1.03	-1.35	-0.13	0.82	-0.9	X	-4.17	
TM	1.03	-1.03	0.61	1.7	-0.67	X	8.957	
CM	1.09	-0.69	1.44	1.13	-0.38	O	15.2	AAAA
	0.92	-0.78	-0.36	1.79	-0.36	O	6.308	AA
	2.06	-0.29	-0.96	2.39	0.04	O	18.39	AAAA
	1.23	-1.15	-1.05	1.7	-0.67	X	-0.96	
	0.45	-1.98	-1.13	0.79	-1.64	X	-22.7	
	0.4	-2.09	-0.68	0.53	-1.61	X	-22.2	
12.	()							
DM	1.71	-0.45	-0.36	0.85	-1.03	X	3.392	
TM	1.71	-0.13	0.38	1.73	-0.8	O	16.52	AAAA
CM	1.77	0.21	1.21	1.16	-0.51	O	22.76	AAAA
	1.6	0.12	-0.59	1.82	-0.49	O	13.87	AAAA
	2.74	0.61	-1.19	2.42	-0.09	X	25.95	
	1.91	-0.25	-1.28	1.73	-0.8	X	6.599	
	1.13	-1.08	-1.36	0.82	-1.77	X	-15.1	
	1.08	-1.19	-0.91	0.56	-1.74	X	-14.6	

13.	(5)								
DM	0.55	-0.61	0.28	-0.44	-0.68	O	-5.66		
TM	0.55	-0.29	1.02	0.44	-0.45	O	7.468	AA	
CM	0.61	0.05	1.85	-0.13	-0.16	O	13.71	AAAA	
	0.44	-0.04	0.05	0.53	-0.14	O	4.818	AA	
	1.58	0.45	-0.55	1.13	0.26	O	16.9	AAAA	
	0.75	-0.41	-0.64	0.44	-0.45	O	-2.45		
	-0.03	-1.24	-0.72	-0.47	-1.42	X	-24.2		
	-0.08	-1.35	-0.27	-0.73	-1.39	X	-23.6		
14.	(5)								
DM	1.32	-0.64	-0.43	0.43	-0.74	O	-1.1		
TM	1.32	-0.32	0.31	1.31	-0.51	O	12.03	AAAA	
CM	1.38	0.02	1.14	0.74	-0.22	O	18.27	AAAA	
	1.21	-0.07	-0.66	1.4	-0.2	O	9.376	AA	
	2.35	0.42	-1.26	2	0.2	X	21.46		
	1.52	-0.44	-1.35	1.31	-0.51	X	2.107		
	0.74	-1.27	-1.43	0.4	-1.48	X	-19.6		
	0.69	-1.38	-0.98	0.14	-1.45	X	-19.1		
15.									
DM	1.1	-0.64	-0.61	0.43	-0.71	O	-3.34		
TM	1.1	-0.32	0.13	1.31	-0.48	O	9.788	AA	
CM	1.16	0.02	0.96	0.74	-0.19	O	16.03	AAAA	
	0.99	-0.07	-0.84	1.4	-0.17	O	7.138	AA	
	2.13	0.42	-1.44	2	0.23	X	19.22		
	1.3	-0.44	-1.53	1.31	-0.48	X	-0.13		
	0.52	-1.27	-1.61	0.4	-1.45	X	-21.9		
	0.47	-1.38	-1.16	0.14	-1.42	X	-21.3		
16.									
DM	1.97	-0.97	-0.72	1.14	-1.61	X	-2.6		
TM	1.97	-0.65	0.02	2.02	-1.38	X	10.53		
CM	2.03	-0.31	0.85	1.45	-1.09	X	16.77		
	1.86	-0.4	-0.95	2.11	-1.07	X	7.877		
	3	0.09	-1.55	2.71	-0.67	?	19.96	A	
	2.17	-0.77	-1.64	2.02	-1.38	X	0.608		
	1.39	-1.6	-1.72	1.11	-2.35	X	-21.1		
	1.34	-1.71	-1.27	0.85	-2.32	X	-20.6		

4. 2 -

1.								
DM	-1.69	-0.9	-0.6	2.12	-2.85	X	-25.73	
TM	-0.87	-0.65	-0.51	3.16	-2.22	X	-8.025	
CM	-1.56	-0.34	0.27	2.47	-2.91	X	-13.96	
	-0.09	0.82	-0.85	4.34	-0.88	O	20.187	AA
	0.72	0.54	-1.26	4.72	-0.47	?	25.686	(A)
	0.72	0.74	-1.32	4.66	-0.38	?	26.834	(A)
	-1	-0.31	-2.07	3.22	-1.91	X	-14.16	
	-2.09	-1.65	-1.13	1.94	-2.91	X	-37.96	
2.								
DM	-2.07	-1.37	0.34	0.35	-1.44	X	-26.72	
TM	-1.25	-1.12	0.43	1.39	-0.81	X	-9.012	
CM	-1.94	-0.81	1.21	0.7	-1.5	X	-14.95	
	-0.47	0.35	0.09	2.57	0.53	O	19.201	AAAA
	0.34	0.07	-0.32	2.95	0.94	O	24.699	AAAA
	0.34	0.27	-0.38	2.89	1.03	O	25.848	AAAA
	-1.38	-0.78	-1.13	1.45	-0.5	X	-15.15	
	-2.47	-2.12	-0.19	0.17	-1.5	X	-38.95	
3.								
DM	-1.1	-1.04	-0.19	0.24	-1.23	X	-21.32	
TM	-0.28	-0.79	-0.1	1.28	-0.6	O	-3.618	A
CM	-0.97	-0.48	0.68	0.59	-1.29	X	-9.555	
	0.5	0.68	-0.44	2.46	0.74	O	24.595	AAAA
	1.31	0.4	-0.85	2.84	1.15	O	30.093	AAAA
	1.31	0.6	-0.91	2.78	1.24	O	31.242	AAAA
	-0.41	-0.45	-1.66	1.34	-0.29	X	-9.755	
	-1.5	-1.79	-0.72	0.06	-1.29	X	-33.56	
4.								
DM	-0.07	-1.04	-0.13	1.38	-1.35	X	-8.467	
TM	0.75	-0.79	-0.04	2.42	-0.72	O	9.2393	AA
CM	0.06	-0.48	0.74	1.73	-1.41	X	3.3027	
	1.53	0.68	-0.38	3.6	0.62	O	37.452	AAAA
	2.34	0.4	-0.79	3.98	1.03	O	42.95	AAAA
	2.34	0.6	-0.85	3.92	1.12	O	44.099	AAAA
	0.62	-0.45	-1.6	2.48	-0.41	X	3.1026	
	-0.47	-1.79	-0.66	1.2	-1.41	X	-20.7	

5.								
DM	-1.69	-0.84	-0.63	-0.15	-1.17	X	-28.42	
TM	-0.87	-0.59	-0.54	0.89	-0.54	O	-10.71	A
CM	-1.56	-0.28	0.24	0.2	-1.23	X	-16.65	
	-0.09	0.88	-0.88	2.07	0.8	O	17.5	AAAA
	0.72	0.6	-1.29	2.45	1.21	X	22.998	
	0.72	0.8	-1.35	2.39	1.3	X	24.147	
	-1	-0.25	-2.1	0.95	-0.23	X	-16.85	
	-2.09	-1.59	-1.16	-0.33	-1.23	X	-40.65	
6.								
DM	-2.34	-1.54	-0.54	-0.44	-1.94	X	-43.21	
TM	-1.52	-1.29	-0.45	0.6	-1.31	X	-25.51	
CM	-2.21	-0.98	0.33	-0.09	-2	X	-31.44	
	-0.74	0.18	-0.79	1.78	0.03	O	2.707	AA
	0.07	-0.1	-1.2	2.16	0.44	X	8.2052	
	0.07	0.1	-1.26	2.1	0.53	X	9.3541	
	-1.65	-0.95	-2.01	0.66	-1	X	-31.64	
	-2.74	-2.29	-1.07	-0.62	-2	X	-55.45	
7.								
DM	-0.48	-0.25	-0.49	0.8	-0.5	O	-6.076	A
TM	0.34	0	-0.4	1.84	0.13	O	11.63	AA
CM	-0.35	0.31	0.38	1.15	-0.56	O	5.6937	AA
	1.12	1.47	-0.74	3.02	1.47	O	39.843	AAAA
	1.93	1.19	-1.15	3.4	1.88	X	45.341	
	1.93	1.39	-1.21	3.34	1.97	X	46.49	
	0.21	0.34	-1.96	1.9	0.44	X	5.4936	
	-0.88	-1	-1.02	0.62	-0.56	?	-18.31	
8.								
DM	-0.16	-0.6	-0.46	0.12	-1.17	X	-14.77	
TM	0.66	-0.35	-0.37	1.16	-0.54	O	2.9314	AA
CM	-0.03	-0.04	0.41	0.47	-1.23	X	-3.005	
	1.44	1.12	-0.71	2.34	0.8	O	31.144	AAAA
	2.25	0.84	-1.12	2.72	1.21	X	36.642	
	2.25	1.04	-1.18	2.66	1.3	X	37.791	
	0.53	-0.01	-1.93	1.22	-0.23	X	-3.205	
	-0.56	-1.35	-0.99	-0.06	-1.23	X	-27.01	

<	>								
1.									
DM	0.69	-1.13	-2.05	0.44	-2.64	X	-30.89		
TM	1.51	-0.88	-1.96	1.48	-2.01	X	-13.19		
CM	0.82	-0.57	-1.18	0.79	-2.7	X	-19.12		
	2.29	0.59	-2.3	2.66	-0.67	X	15.027	(A)	
	3.1	0.31	-2.71	3.04	-0.26	X	20.525	(A)	
	3.1	0.51	-2.77	2.98	-0.17	X	21.674	(A)	
	1.38	-0.54	-3.52	1.54	-1.7	X	-19.32		
	0.29	-1.88	-2.58	0.26	-2.7	X	-43.13		
2.									
DM	0.85	-0.37	-0.16	0.47	-1.87	X	-7.633		
TM	1.67	-0.12	-0.07	1.51	-1.24	X	10.073		
CM	0.98	0.19	0.71	0.82	-1.93	X	4.1363		
	2.45	1.35	-0.41	2.69	0.1	O	38.285	AAAA	
	3.26	1.07	-0.82	3.07	0.51	O	43.784	AAAA	
	3.26	1.27	-0.88	3.01	0.6	O	44.933	AAAA	
	1.54	0.22	-1.63	1.57	-0.93	X	3.9362		
	0.45	-1.12	-0.69	0.29	-1.93	X	-19.87		
3.									
DM	0.46	-1.6	-0.47	0.13	-1.68	X	-20.89		
TM	1.28	-1.35	-0.38	1.17	-1.05	X	-3.18		
CM	0.59	-1.04	0.4	0.48	-1.74	X	-9.116		
	2.06	0.12	-0.72	2.35	0.29	O	25.033	AAAA	
	2.87	-0.16	-1.13	2.73	0.7	X	30.531		
	2.87	0.04	-1.19	2.67	0.79	X	31.68		
	1.15	-1.01	-1.94	1.23	-0.74	X	-9.316		
	0.06	-2.35	-1	-0.05	-1.74	X	-33.12		
4.									
DM	0.69	-1.17	-0.7	0.17	-1.72	X	-18.15		
TM	1.51	-0.92	-0.61	1.21	-1.09	?	-0.447	(A)	
CM	0.82	-0.61	0.17	0.52	-1.78	X	-6.384		
	2.29	0.55	-0.95	2.39	0.25	O	27.765	AAAA	
	3.1	0.27	-1.36	2.77	0.66	X	33.264		
	3.1	0.47	-1.42	2.71	0.75	X	34.412		
	1.38	-0.58	-2.17	1.27	-0.78	X	-6.584		
	0.29	-1.92	-1.23	-0.01	-1.78	X	-30.39		

5.								
DM	-0.07	-1.4	-0.82	-0.29	-1.64	X	-27.35	
TM	0.75	-1.15	-0.73	0.75	-1.01	?	-9.648	(A)
CM	0.06	-0.84	0.05	0.06	-1.7	X	-15.58	
	1.53	0.32	-1.07	1.93	0.33	?	18.565	(A)
	2.34	0.04	-1.48	2.31	0.74	X	24.063	
	2.34	0.24	-1.54	2.25	0.83	X	25.212	
	0.62	-0.81	-2.29	0.81	-0.7	X	-15.78	
	-0.47	-2.15	-1.35	-0.47	-1.7	X	-39.59	
6.								
DM	-0.46	-1.79	-1.47	-0.22	-1.95	X	-38.04	
TM	0.36	-1.54	-1.38	0.82	-1.32	X	-20.34	
CM	-0.33	-1.23	-0.6	0.13	-2.01	X	-26.27	
	1.14	-0.07	-1.72	2	0.02	X	7.8757	(A)
	1.95	-0.35	-2.13	2.38	0.43	X	13.374	(A)
	1.95	-0.15	-2.19	2.32	0.52	X	14.523	(A)
	0.23	-1.2	-2.94	0.88	-1.01	X	-26.47	
	-0.86	-2.54	-2	-0.4	-2.01	X	-50.28	
7. /								
DM	-0.65	-1.02	-0.74	-0.56	-1.14	X	-26.27	
TM	0.17	-0.77	-0.65	0.48	-0.51	O	-8.563	A
CM	-0.52	-0.46	0.13	-0.21	-1.2	X	-14.5	
	0.95	0.7	-0.99	1.66	0.83	O	19.65	AAAA
	1.76	0.42	-1.4	2.04	1.24	X	25.148	
	1.76	0.62	-1.46	1.98	1.33	X	26.297	
	0.04	-0.43	-2.21	0.54	-0.2	X	-14.7	
	-1.05	-1.77	-1.27	-0.74	-1.2	X	-38.5	
8. /								
DM	-0.61	-0.67	-0.28	-0.56	-1.22	X	-21.32	
TM	0.21	-0.42	-0.19	0.48	-0.59	O	-3.611	A
CM	-0.48	-0.11	0.59	-0.21	-1.28	X	-9.548	
	0.99	1.05	-0.53	1.66	0.75	O	24.602	AAAA
	1.8	0.77	-0.94	2.04	1.16	O	30.1	AAAA
	1.8	0.97	-1	1.98	1.25	O	31.249	AAAA
	0.08	-0.08	-1.75	0.54	-0.28	X	-9.748	
	-1.01	-1.42	-0.81	-0.74	-1.28	X	-33.55	

9.								
DM	1.02	-1.38	-1.2	0.13	-2.2	X	-24.1	
TM	1.84	-1.13	-1.11	1.17	-1.57	X	-6.394	
CM	1.15	-0.82	-0.33	0.48	-2.26	X	-12.33	
	2.62	0.34	-1.45	2.35	-0.23	X	21.819	(A)
	3.43	0.06	-1.86	2.73	0.18	X	27.317	(A)
	3.43	0.26	-1.92	2.67	0.27	X	28.466	(A)
	1.71	-0.79	-2.67	1.23	-1.26	X	-12.53	
	0.62	-2.13	-1.73	-0.05	-2.26	X	-36.33	
10.								
DM	1.14	-1.17	-1.16	0.84	-2.62	X	-20.14	
TM	1.96	-0.92	-1.07	1.88	-1.99	X	-2.436	
CM	1.27	-0.61	-0.29	1.19	-2.68	X	-8.373	
	2.74	0.55	-1.41	3.06	-0.65	X	25.776	(A)
	3.55	0.27	-1.82	3.44	-0.24	X	31.275	(A)
	3.55	0.47	-1.88	3.38	-0.15	X	32.423	(A)
	1.83	-0.58	-2.63	1.94	-1.68	X	-8.573	
	0.74	-1.92	-1.69	0.66	-2.68	X	-32.38	
11.								
DM	1.1	-1.42	-0.53	0.63	-1.79	X	-13.85	
TM	1.92	-1.17	-0.44	1.67	-1.16	X	3.8593	
CM	1.23	-0.86	0.34	0.98	-1.85	X	-2.077	
	2.7	0.3	-0.78	2.85	0.18	O	32.072	AAAA
	3.51	0.02	-1.19	3.23	0.59	X	37.57	
	3.51	0.22	-1.25	3.17	0.68	X	38.719	
	1.79	-0.83	-2	1.73	-0.85	X	-2.277	
	0.7	-2.17	-1.06	0.45	-1.85	X	-26.08	
12.								
DM	0.52	-0.79	-0.82	0.22	-2.16	X	-20.04	
TM	1.34	-0.54	-0.73	1.26	-1.53	X	-2.338	
CM	0.65	-0.23	0.05	0.57	-2.22	X	-8.275	
	2.12	0.93	-1.07	2.44	-0.19	X	25.875	(A)
	2.93	0.65	-1.48	2.82	0.22	X	31.373	(A)
	2.93	0.85	-1.54	2.76	0.31	X	32.522	(A)
	1.21	-0.2	-2.29	1.32	-1.22	X	-8.475	
	0.12	-1.54	-1.35	0.04	-2.22	X	-32.28	

13.								
DM	0.1	-1.13	0.18	0.17	-1.58	X	-14.95	
TM	0.92	-0.88	0.27	1.21	-0.95	O	2.756	AA
CM	0.23	-0.57	1.05	0.52	-1.64	X	-3.181	
	1.7	0.59	-0.07	2.39	0.39	O	30.969	AAAA
	2.51	0.31	-0.48	2.77	0.8	O	36.467	AAAA
	2.51	0.51	-0.54	2.71	0.89	O	37.616	AAAA
	0.79	-0.54	-1.29	1.27	-0.64	X	-3.381	
	-0.3	-1.88	-0.35	-0.01	-1.64	X	-27.18	
14.								
DM	0.56	-1.13	0.84	0.34	-1.87	X	-8.786	
TM	1.38	-0.88	0.93	1.38	-1.24	X	8.9203	
CM	0.69	-0.57	1.71	0.69	-1.93	X	2.9837	
	2.16	0.59	0.59	2.56	0.1	O	37.133	AAAA
	2.97	0.31	0.18	2.94	0.51	O	42.631	AAAA
	2.97	0.51	0.12	2.88	0.6	O	43.78	AAAA
	1.25	-0.54	-0.63	1.44	-0.93	O	2.7836	AA
	0.16	-1.88	0.31	0.16	-1.93	X	-21.02	
15.								
DM	0.94	-0.75	-0.24	0.17	-1.87	X	-11.92	
TM	1.76	-0.5	-0.15	1.21	-1.24	X	5.7857	
CM	1.07	-0.19	0.63	0.52	-1.93	X	-0.151	
	2.54	0.97	-0.49	2.39	0.1	O	33.998	AAAA
	3.35	0.69	-0.9	2.77	0.51	O	39.496	AAAA
	3.35	0.89	-0.96	2.71	0.6	O	40.645	AAAA
	1.63	-0.16	-1.71	1.27	-0.93	X	-0.351	
	0.54	-1.5	-0.77	-0.01	-1.93	X	-24.15	
16.								
DM	0.52	-0.96	-0.07	0.34	-2.29	X	-16.48	
TM	1.34	-0.71	0.02	1.38	-1.66	X	1.2239	
CM	0.65	-0.4	0.8	0.69	-2.35	X	-4.713	
	2.12	0.76	-0.32	2.56	-0.32	O	29.436	AAAA
	2.93	0.48	-0.73	2.94	0.09	O	34.935	AAAA
	2.93	0.68	-0.79	2.88	0.18	O	36.084	AAAA
	1.21	-0.37	-1.54	1.44	-1.35	X	-4.913	
	0.12	-1.71	-0.6	0.16	-2.35	X	-28.72	