

10 PRINCIPLES OF SUCCESS

1. ENTHUSIASM (Be enthusiastic in things that you do, ask if you do not understand).
2. CHEERFUL (Be cheerful in learning each day).
3. CARING (Show concern to your fellow associates).
4. CHARITABLE (Do not expect any return out of a good deed).
5. ACTION (Must have action plan for everything).
6. HAPPY (Be happy at all times, keep a smiling face).
7. HARDWORKING (Be more hardworking than others).
8. HONEST (Do what you preach).
9. COURAGEOUS (When doing something, must have courage and be decisive).
10. SERIOUS (Serious,serious and be serious).

Hello Students,

Welcome to abacus mental arithmetic class. Learning abacus mental arithmetic can enhance mental response, concentration, focus etc. If you do not know how to do your homework, you may telephone to ask your teacher for assistance.

No	Question	Precise Fingering	Note
1	+ 1	Thumb	Chapter 1
2	+ 2	Thumb	
3	+ 3	Thumb	
4	+ 4	Thumb	
5	+ 5	Forefinger	
6	+ 6	Forefinger, thumb pinch	
7	+ 7	Forefinger, thumb pinch	
8	+ 8	Forefinger, thumb pinch	
9	+ 9	Forefinger, thumb pinch	
10	1 - 1	Thumb, forefinger	Chapter 2
11	2 - 2	Thumb, forefinger	
12	3 - 3	Thumb, forefinger	
13	4 - 4	Thumb, forefinger	
14	5 - 5	Forefinger, forefinger	
15	6 - 6	Forefinger, thumb pinch Forefinger, thumb split(-)	

No	Question	Precise Fingering	Note
16	7 - 7	Forefinger, thumb pinch Forefinger, thumb split(-)	Chapter 2
17	8 - 8	Forefinger, thumb pinch Forefinger, thumb split(-)	
18	9 - 9	Forefinger, thumb pinch Forefinger, thumb split(-)	
19	1 + 1	Thumb, thumb	
20	1 + 2	Thumb, thumb	
21	1 + 3	Thumb, thumb	
22	2 + 1	Thumb, thumb	
23	2 + 2	Thumb, thumb	
24	3 + 1	Thumb, thumb	
25	4 - 1	Thumb, forefinger	
26	4 - 2	Thumb, forefinger	
27	4 - 3	Thumb, forefinger	
28	4 - 4	Thumb, forefinger	
29	3 - 1	Thumb, forefinger	
30	1 + 2	Thumb, thumb	
31	3 - 2	Thumb, forefinger	
32	3 - 3	Thumb, forefinger	
33	2 - 1	Thumb, forefinger	
34	2 - 2	Thumb, forefinger	
35	1 - 1	Thumb, forefinger	

★ Practise 3 times for each question.

No	Question	Precise Fingering	Note
36	5-5	Forefinger, forefinger	Chapter 3
37	1+5	Thumb, forefinger	
38	2+5	Thumb, forefinger	
39	3+5	Thumb, forefinger	
40	2+7	Thumb, forefinger and thumb pinch	
41	4+5	Thumb, forefinger	
42	5+1	Forefinger, thumb	
43	5+2	Forefinger, thumb	
44	5+3	Forefinger, thumb	
45	5+4	Forefinger, thumb	
46	6-1	Forefinger and thumb pinch, forefinger	
47	7-1	Forefinger and thumb pinch, forefinger	
48	8-1	Forefinger and thumb pinch, forefinger	
49	9-1	Forefinger and thumb pinch, forefinger	
50	7-2	Forefinger and thumb pinch, forefinger	
51	8-2	Forefinger and thumb pinch, forefinger	
52	9-2	Forefinger and thumb pinch, forefinger	
53	8-3	Forefinger and thumb pinch, forefinger	
54	9-3	Forefinger and thumb pinch, forefinger	
55	9-4	Forefinger and thumb pinch, forefinger	

No	Question	Precise Fingering	Note
56	6-5	Forefinger and thumb pinch, forefinger	Chapter 3
57	7-5	Forefinger and thumb pinch, forefinger	
58	8-5	Forefinger and thumb pinch, forefinger	
59	9-5	Forefinger and thumb pinch, forefinger	
60	1+6	Thumb, forefinger and thumb pinch	
61	2+6	Thumb, forefinger and thumb pinch	
62	3+6	Thumb, forefinger and thumb pinch	
63	1+7	Thumb, forefinger and thumb pinch	
64	2+7	Thumb, forefinger and thumb pinch	
65	9-5	Forefinger and thumb pinch, forefinger	
66	9-6	Forefinger, thumb pinch Forefinger, thumb split (-)	
67	9-7	Forefinger, thumb pinch Forefinger, thumb split (-)	
68	9-8	Forefinger, thumb pinch Forefinger, thumb split (-)	
69	9-9	Forefinger, thumb pinch Forefinger, thumb split (-)	
70	8-6	Forefinger, thumb pinch Forefinger, thumb split (-)	
71	8-7	Forefinger, thumb pinch Forefinger, thumb split (-)	
72	8-8	Forefinger, thumb pinch Forefinger, thumb split (-)	
73	7-6	Forefinger, thumb pinch Forefinger, thumb split (-)	
74	7-7	Forefinger, thumb pinch Forefinger, thumb split (-)	
75	6-6	Forefinger, thumb pinch Forefinger, thumb split (-)	

★ Practise 3 times for each question.

Important notes for calculation:

1. Left hand to hold steadily the left side of abacus at the 5th rod.
2. When calculating use the centre point as digit point.
3. Both legs to rest on the floor, sit straight while holding pencil in your hand.
4. Remember to push up the top beads (5).

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6-9 Relatives /Breakdowns
1 ~ 9	1 ~ 4	6 : 1 ~ 5
2 ~ 8	2 ~ 3	7 : 2 ~ 5
3 ~ 7		8 : 3 ~ 5
4 ~ 6		9 : 4 ~ 5
5 ~ 5		
Best Friends	Brothers	Neighbours

Lower beads

NO	1	2	3	4	5	6	7	8	9	10
1	2	3	4	3	4	4	/	3	2	2
2	/	/	-2	-3	-/	-2	3	/	/	2
3	/	-3	/	/	-2	-2	-4	-/	-3	-/
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	2	/	2	3	3	4	2	2	/	3
2	-2	2	-/	-2	-/	-/	-2	2	/	-3
3	4	/	2	3	/	/	3	-4	-2	/
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	3	3	2	3	4	3	4	4	3	4
2	-2	/	2	-/	-3	-/	-3	-3	-3	-/
3	/	-2	-3	2	/	-/	3	/	4	-/
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	4	/	2	/	/	3	/	/	4	3
2	-3	3	-/	/	2	/	-/	2	-/	-2
3	2	-2	-/	2	/	-2	3	-/	/	2
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	3	3	2	/	2	4	3	/	2	/
2	-3	-/	-2	3	/	-3	/	/	2	2
3	/	/	2	-4	/	/	-2	-/	-/	-3
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	4	/	3	4	/	3	2	2	/	2
2	-/	2	/	-2	/	-3	-/	-2	3	/
3	/	-/	-4	-/	-2	/	/	2	-4	/
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	2	4	4	3	2	4	/	2	/	/
2	2	-2	-4	-2	-2	-3	3	-/	/	2
3	-4	/	/	2	4	2	-2	-/	2	/
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Introducing best friends
(10 Relatives)

2. Exercises: $1 + 1$ 、 $1 + 2$ 、 $1 + 3$
 $2 + 1$ 、 $2 + 2$ 、 $4 - 1$
 $4 - 2$ 、 $3 - 3$ 、 $3 - 2$

10 Relatives / Breakdowns	5 Relatives / Breakdowns	6-9 Relatives / Breakdowns
1 ~ 9	1 ~ 4	6 : 1 ~ 5
2 ~ 8	2 ~ 3	7 : 2 ~ 5
3 ~ 7		8 : 3 ~ 5
4 ~ 6		9 : 4 ~ 5
5 ~ 5		
Best Friends	Brothers	Neighbours

Upper beads

NO	1	2	3	4	5	6	7	8	9	10
1	5	5	5	3	5	3	2	4	/	2
2	-5	4	/	-3	3	5	/	5	5	5
3	4	-3	2	/	-3	/	5	-2	-5	2
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	3	2	3	5	5	5	2	5	4	5
2	/	5	5	4	2	-5	-2	-5	5	3
3	5	-5	-5	-5	-2	3	5	4	-2	-3
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	/	5	5	5	4	/	4	2	3	4
2	5	3	/	2	-3	3	5	2	-3	-/
3	-5	-5	-5	/	/	5	-3	5	5	5
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	5	5	/	/	5	3	/	4	/	/
2	2	-5	2	5	/	/	3	5	/	5
3	2	5	5	2	/	5	-3	-2	-2	2
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	5	2	2	3	2	2	/	2	5	4
2	4	-2	-/	5	2	-2	-/	5	4	-2
3	-2	5	5	-/	5	/	5	-5	-5	5
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	3	5	2	4	3	5	2	4	5	/
2	-/	-5	5	5	-2	.3	/	5	2	2
3	5	3	/	-3	3	-2	5	-4	2	-3
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	/	5	4	4	/	3	2	3	5	3
2	5	2	-3	-2	3	/	2	-2	3	-2
3	-5	-5	5	5	5	5	-4	3	/	5
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Upper and lower beads training.

2. Exercises: $1 + 6$ 、 $2 + 6$ 、 $3 + 6$
 $1 + 7$ 、 $2 + 7$ 、 $9 - 6$
 $9 - 7$ 、 $8 - 6$ 、 $8 - 7$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6-9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

Upper, lower beads mixed

NO	1	2	3	4	5	6	7	8	9	10
1	/	/	2	/	/	/	2	2	2	3
2	6	5	6	8	7	7	7	5	6	5
3	-2	-6	-7	-8	-3	-6	-8	-6	-5	-8
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	8	2	6	2	6	3	3	2	2	9
2	-8	5	2	7	/	6	6	7	6	-8
3	5	-6	-8	-3	-7	-7	-9	-1	-8	5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	9	7	3	9	3	5	2	8	3	3
2	-7	2	6	-8	5	3	6	-2	5	6
3	6	-9	-9	6	-1	-6	-8	/	-6	-9
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	2	4	3	9	3	/	3	5	/	/
2	6	5	5	-6	6	8	6	4	7	8
3	-3	-6	-7	/	-3	-4	-7	-6	-6	-7
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	/	2	/	9	8	6	8	9	8	3
2	8	7	7	-8	-7	-6	-6	-8	-8	6
3	-5	-8	-3	6	-1	9	7	6	6	-3
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	7	2	8	6	7	8	3	8	2	8
2	2	5	-6	2	-7	/	6	-3	6	/
3	-7	-6	6	-3	9	-8	-7	4	-8	-4
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	6	6	9	5	/	2	/	9	3	/
2	-6	/	-5	3	6	7	8	-8	6	7
3	8	-5	5	-2	-2	-4	-9	2	-2	-5
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Upper, and lower beads training.

2. Exercises: $1 + 8$ 、 $1 + 6$ 、 $2 + 6$
 $3 + 6$ 、 $1 + 7$ 、 $9 - 8$
 $9 - 9$ 、 $8 - 8$ 、 $7 - 6$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

Upper, lower beads mixed

NO	1	2	3	4	5	6	7	8	9	10
1	/	/	2	2	/	/	3	2	2	9
2	8	7	5	7	6	5	6	7	6	-8
3	-9	-5	-5	-8	-7	-6	-7	-7	-5	/
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	7	6	3	9	6	5	2	8	3	2
2	-7	2	6	-8	-6	2	6	-2	6	6
3	4	-2	-8	5	7	-6	-1	3	-6	-7
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	3	2	9	2	5	2	6	6	7	2
2	5	7	-6	6	2	7	2	/	-6	6
3	/	-3	5	-3	-6	-3	-7	-6	6	-7
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	2	2	1	4	1	2	1	3	1	1
2	5	6	6	5	8	7	8	6	7	6
3	-7	-3	-2	-8	-5	-6	-3	-5	-3	-7
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	2	3	3	6	8	1	1	2	3	1
2	7	5	6	2	-7	8	7	7	5	7
3	-8	-7	-2	-2	6	-9	-8	-6	-6	-5
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	6	7	8	9	9	1	1	1	2	6
2	1	1	-5	-6	-9	8	8	7	7	1
3	-2	-5	6	5	3	-6	-4	-2	-3	-2
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	1	7	6	9	1	1	4	2	2	3
2	7	2	3	-5	5	8	5	7	6	5
3	-6	-8	-5	5	2	-9	-7	-4	-6	-6
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. To start book 216 (constant addition and subtraction).

2. Exercises: $1 + 6$ 、 $2 + 6$ 、 $3 + 6$
 $1 + 7$ 、 $2 + 7$ 、 $9 - 6$
 $9 - 7$ 、 $9 - 8$ 、 $8 - 6$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6-9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

Upper, lower beads mixed

NO	1	2	3	4	5	6	7	8	9	10
1	3	/	5	8	6	2	9	8	4	2
2	6	5	2	-8	-5	7	-8	/	5	-/
3	-4	2	-7	8	8	-9	7	-7	-7	7
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	/	9	6	2	5	4	/	2	5	/
2	6	-8	3	7	/	5	8	2	3	8
3	-7	5	-7	-/	-6	-9	-7	-4	-6	-5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	2	2	3	9	9	9	2	2	4	5
2	5	6	5	-7	-2	-8	7	6	5	4
3	-7	-7	-8	6	-7	8	-8	-6	-8	-8
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	6	/	2	/	3	2	2	2	3	2
2	3	8	6	7	6	7	6	5	6	6
3	-9	-8	-7	-3	-5	-7	-5	-7	-4	-5
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	7	5	2	6	9	/	6	5	8	3
2	2	2	7	-6	-8	5	3	4	-6	6
3	-6	-7	-7	7	3	-6	-4	-4	7	-6
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	6	6	6	8	7	3	6	7	6	7
2	/	3	2	/	-7	5	2	2	/	-6
3	/	-4	-8	-8	6	-3	-8	-5	-6	8
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	8	2	7	/	5	7	6	8	7	3
2	-6	5	2	6	2	/	2	-3	/	6
3	2	2	-6	-6	-6	-6	-7	4	-8	-9
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 10 relatives

2. Exercises: $3 + 6$, $4 + 5$, $3 + 5$
 $2 + 5$, $1 + 5$, $9 - 9$
 $8 - 7$, $7 - 6$, $6 - 6$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6-9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

Upper, lower beads mixed

NO	1	2	3	4	5	6	7	8	9	10
1	7	2	3	6	7	7	6	5	4	9
2	2	5	6	3	1	2	3	4	5	-6
3	-4	-7	-7	-8	-6	-9	-8	-6	-8	6
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	2	2	3	2	1	9	6	6	4	3
2	7	5	5	6	5	-2	-6	3	-3	5
3	-4	1	-5	-8	-6	-6	9	-4	7	-6
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	8	7	9	6	6	2	4	6	4	7
2	-3	-6	-5	1	2	2	5	1	5	-6
3	4	8	5	-2	-6	-3	-6	-7	-6	3
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	2	3	7	2	5	2	8	3	7	2
2	7	5	2	5	1	5	-5	5	-5	6
3	-8	-8	-9	-5	-6	-7	5	-8	6	-6
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	7	7	7	5	4	4	1	2	3	7
2	-7	-6	-2	4	5	5	8	5	6	-6
3	6	8	3	-8	-7	-8	-6	-7	-2	5
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	3	9	1	6	8	5	7	8	5	9
2	6	-8	7	2	1	2	2	-6	4	-8
3	-9	6	-8	-7	-7	-6	-9	5	-6	5
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	1	2	1	5	6	1	3	3	2	2
2	6	6	8	-5	1	7	6	6	7	6
3	-2	-7	-8	6	2	-7	-7	-9	-1	-8
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Teaching of 10 relatives

2. Exercises: $1 + 9$ 、 $2 + 9$ 、 $3 + 9$
 $4 + 9$ 、 $6 + 9$ 、 $7 + 9$
 $8 + 9$ 、 $9 + 9$ 、 $1 + 9$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1 ~ 9	1 ~ 4	6 : 1 ~ 5
2 ~ 8	2 ~ 3	7 : 2 ~ 5
3 ~ 7		8 : 3 ~ 5
4 ~ 6		9 : 4 ~ 5
5 ~ 5		
Best Friends	Brothers	Neighbours

$+9 = -1 + 10$

NO	1	2	3	4	5	6	7	8	9	10
1	8	7	1	9	6	4	3	2	1	4
2	9	9	9	9	9	9	9	9	9	9
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	9	6	3	4	3	5	4	3	8	1
2	9	9	6	9	9	2	9	-2	-8	9
3						1	5	2	6	4
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	2	2	4	8	3	4	9	2	1	9
2	2	9	-2	9	5	9	-8	1	9	9
3						1	6	1	3	1
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	7	4	2	8	3	/	6	5	/	9
2	9	9	9	9	-/	9	9	2	2	9
3						3	3	9	5	-2
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	3	/	6	5	/	9	2	4	3	5
2	9	9	9	2	8	9	9	-2	9	/
3						-5	3	9	6	9
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	2	9	/	7	2	4	2	/	6	4
2	9	9	3	9	2	9	6	9	9	9
3						-2	/	7	-5	6
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	4	/	4	6	8	9	3	/	7	2
2	9	9	5	9	9	9	9	2	9	9
3						-/	7	/	/	5
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 10 relatives

2. Exercises: $2 + 8$, $3 + 8$, $4 + 8$
 $7 + 8$, $8 + 8$, $9 + 8$
 $1 + 9$, $2 + 9$, $3 + 9$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6-9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$+8 = -2 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	8	3	7	2	8	4	2	3	7	4
2	8	8	8	8	8	8	8	8	8	8
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	2	3	9	4	7	4	8	4	4	3
2	8	/	8	8	8	8	/	-/	8	8
3						-/	8	8	5	-/
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	3	7	/	9	8	2	9	4	2	/
2	8	8	/	-2	8	2	8	5	5	2
3						8	2	-3	8	8
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	4	3	7	2	8	4	2	3	7	4
2	8	8	/	8	8	5	/	-/	8	8
3						8	8	8	-5	6
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	7	9	5	8	3	7	3	2	3	5
2	8	8	3	/	6	8	8	8	-2	-5
3						3	2	5	/	4
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	3	5	8	2	2	2	4	3	3	4
2	8	2	8	7	8	8	5	-/	8	8
3						2	-2	/	6	/
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	2	9	7	4	4	2	4	3	2	2
2	2	8	8	8	-3	7	8	/	-2	8
3						-9	6	-2	5	3
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 10 relatives

2. Exercises: $3 + 7$ 、 $4 + 7$ 、 $8 + 7$
 $9 + 7$ 、 $2 + 8$ 、 $3 + 8$
 $4 + 8$ 、 $7 + 8$ 、 $8 + 8$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$+7 = -3 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	8	4	4	/	9	3	8	4	3	9
2	7	5	7	7	7	7	7	7	7	7
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	9	4	3	/	4	2	4	3	4	4
2	7	-1	7	6	7	/	-3	-3	5	7
3						7	3	5	-8	7
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	4	3	8	4	/	5	8	3	5	9
2	5	/	7	7	3	/	7	7	-5	7
3						/	3	6	5	/
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	4	3	8	2	9	1	4	3	9	2
2	7	7	7	5	7	3	-1	7	-6	2
3						7	7	5	7	7
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	2	9	3	2	8	3	7	9	4	3
2	7	7	-2	6	7	7	2	-1	7	6
3						7	7	7	3	7
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	7	2	4	6	3	9	9	8	9	9
2	-5	1	7	3	7	-5	7	7	-5	7
3						7	-6	4	7	2
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	3	8	1	3	9	9	4	2	6	3
2	5	7	8	7	7	-6	7	5	2	7
3						7	5	2	7	4
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 10 relatives

2. Exercises: $4 + 6$ 、 $9 + 6$ 、 $3 + 7$
 $4 + 7$ 、 $8 + 7$ 、 $9 + 7$
 $2 + 8$ 、 $3 + 8$ 、 $4 + 8$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6-9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$+6 = -4 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	4	9	7	3	4	2	/	4	9	/
2	6	6	/	5	6	2	7	6	6	6
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	9	2	5	4	2	/	9	/	9	9
2	6	7	4	6	-2	5	-9	3	-6	-5
3						3	4	6	5	6
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	4	3	4	/	9	8	7	/	4	9
2	6	/	-2	8	6	-5	2	/	6	-6
3						6	6	7	5	/
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	4	3	7	9	3	2	/	4	9	/
2	6	5	/	6	6	2	7	6	6	6
3						-3	/	2	-5	2
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	9	/	9	/	2	4	2	/	4	2
2	-8	8	6	/	-2	6	6	7	6	2
3						5	-3	-5	6	6
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	4	8	2	9	4	/	2	3	/	4
2	5	-8	7	6	6	6	-/	/	3	6
3						-2	/	5	6	7
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	2	9	4	/	/	4	8	5	3	4
2	5	6	6	2	5	6	/	4	6	6
3						9	6	-2	-2	2
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 10 relatives

2. Exercises: $5 + 5$ 、 $6 + 5$ 、 $7 + 5$
 $8 + 5$ 、 $9 + 5$ 、 $6 + 4$
 $7 + 4$ 、 $8 + 4$ 、 $9 + 4$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$+5 = -5 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	5	7	6	9	7	5	8	4	9	2
2	5	5	5	5	5	5	5	5	5	5
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	/	3	9	2	5	5	3	2	7	4
2	-/	-/	5	-/	5	5	6	-2	5	5
3						6	-7	/	5	5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	6	/	7	8	/	6	5	4	2	5
2	5	7	5	5	3	5	5	-3	-/	5
3						3	8	2	5	9
Ans										

$$+4 = -6 + 10$$

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	9	5	8	6	9	7	6	8	7	5
2	4	4	4	4	4	4	4	4	4	4
3										
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	8	6	9	2	3	8	7	1	4	7
2	4	4	4	5	-2	4	4	8	-1	4
3						6	8	-2	1	5
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	5	3	8	7	4	2	2	6	7	1
2	3	-1	4	4	-3	7	6	4	4	8
3						-7	-5	1	3	4
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	9	3	7	6	4	3	1	3	9	6
2	4	-2	4	4	5	6	2	-3	4	4
3						4	-1	1	6	5
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 5 relatives

2. Exercises: $7 + 3$, $8 + 3$, $9 + 3$
 $8 + 2$, $9 + 2$, $6 + 4$
 $7 + 4$, $8 + 4$, $9 + 4$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$+3 = -7 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	8	/	6	7	9	6	5	9	8	7
2	3	3	3	3	3	3	3	3	3	3
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	9	8	/	5	7	/	/	8	2	3
2	3	3	5	2	3	2	3	3	6	6
3						-3	-4	7	-1	3
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	2	8	9	4	8	2	4	7	2	9
2	7	-3	-8	-1	3	/	5	3	-2	3
3						5	-4	/	/	/
Ans										

$$+2 = -8 + 10$$

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	8	9	2	6	9	8	/	7	9	8
2	2	2	2	2	2	2	2	2	2	2
3										
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	9	2	8	/	4	8	3	3	9	9
2	2	6	2	2	-2	2	-2	6	2	2
3						8	3	-8	6	3
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	4	9	8	8	5	/	9	7	3	9
2	-1	2	2	-3	3	2	2	2	6	2
3						-1	2	2	-6	/
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	2	3	8	9	2	3	9	3	3	8
2	-2	/	-2	2	7	6	2	/	-2	2
3						-4	5	5	5	2
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 5 relatives

2. Exercises: $9 + 1$ 、 $8 + 2$ 、 $9 + 2$
 $7 + 3$ 、 $8 + 3$ 、 $9 + 3$
 $6 + 4$ 、 $7 + 4$ 、 $8 + 4$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$+ / = - 9 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	9	5	8	9	7	2	9	3	6	9
2	/	/	/	/	/	/	/	/	/	/
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	9	5	3	9	/	7	2	6	9	9
2	/	-5	6	/	3	2	6	/	/	/
3						/	-7	-6	9	2
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	5	/	2	9	4	5	8	6	3	7
2	4	6	2	/	5	2	/	3	-3	2
3						-6	/	/	/	/
Ans										

Revision (10 relatives)

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	2	4	9	3	8	7	8	9	7	3
2	9	8	6	7	2	3	2	1	4	7
3						9	3	1	5	8
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	6	2	4	2	9	1	2	5	1	6
2	9	5	8	6	7	6	7	4	8	9
3						4	5	5	2	3
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	8	4	7	8	1	3	5	1	1	2
2	7	5	9	9	6	6	4	7	6	9
3						5	1	4	3	2
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	4	2	3	3	3	1	2	7	3	2
2	9	7	9	5	6	9	6	9	9	7
3						1	2	3	2	6
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Teaching of 5 relatives

2. Exercises: $1 + 4$ 、 $2 + 4$ 、 $3 + 4$
 $4 + 4$ 、 $2 + 3$ 、 $3 + 3$
 $4 + 3$ 、 $1 + 4$ 、 $2 + 4$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$+4 = +5 - /$ ($+4 = 5, /$ push down)

NO	1	2	3	4	5	6	7	8	9	10
1	//	23	42	2/	/3	32	3/	22	23	4/
2	4	4	4	4	4	4	4	4	4	4
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	3/	/2	22	34	32	/2	/3	25	//	54
2	4	4	4	-2	4	2	4	3	6	4
3						5	/	-5	-2	/
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	//	/4	/3	24	22	35	//	3/	//	32
2	4	4	4	5	2	/	3	5	3	2
3						-5	4	-6	-4	4
Ans										

$+3 = +5 - 2$ ($+3 = 5, 2$ push down)

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	12	23	43	22	24	34	32	44	33	42
2	3	3	3	3	3	3	3	3	3	3
3										
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	22	43	12	15	32	13	23	35	34	12
2	3	1	3	2	3	5	3	-5	3	7
3						-5	-5	5	1	-8
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	12	23	42	13	22	14	31	22	32	27
2	1	3	3	3	-2	3	7	3	5	-5
3						-5	-6	4	-6	3
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	34	22	24	33	44	35	32	13	38	15
2	3	2	3	3	3	-5	2	5	-5	3
3						4	3	-8	3	-3
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $3 + 2$ 、 $4 + 2$ 、 $4 + 1$
 $2 + 3$ 、 $3 + 3$ 、 $4 + 3$
 $1 + 4$ 、 $2 + 4$ 、 $3 + 4$

10 Relatives / Breakdowns	5 Relatives / Breakdowns	6-9 Relatives / Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$+2 = +5 - 3$ ($+2 = 5, 3$ push down)

NO	1	2	3	4	5	6	7	8	9	10
1	13	24	54	23	14	44	43	34	64	33
2	2	2	2	2	2	2	2	2	2	2
3										
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	53	13	23	44	33	43	13	31	23	32
2	2	-1	2	2	2	-2	2	5	2	7
3						1	4	-5	1	-3
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	34	24	13	29	43	34	12	23	31	19
2	2	2	5	-5	2	2	6	2	6	-5
3						-5	-8	1	-7	2
Ans										

$+ / = + 5 - 4$ ($+ / = 5, 4$ push down)

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	14	54	74	24	94	64	34	84	24	44
2	/	/	/	/	/	/	/	/	/	/
3										
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	74	24	14	34	15	21	15	31	19	22
2	/	/	-3	/	-5	3	4	3	-8	2
3						/	-4	/	5	/
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	34	22	54	32	14	33	14	32	43	13
2	/	2	/	6	/	-1	/	7	/	5
3						/	/	-6	/	/
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	44	84	25	64	24	14	23	34	21	33
2	/	/	4	/	/	/	-3	/	8	/
3						3	2	4	-9	/
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $1 + 9$ 、 $2 + 9$ 、 $3 + 9$
 $2 + 8$ 、 $3 + 8$ 、 $4 + 8$
 $3 + 7$ 、 $4 + 7$ 、 $8 + 7$

10 Relatives / Breakdowns	5 Relatives / Breakdowns	6-9 Relatives / Breakdowns
1 ~ 9	1 ~ 4	6 : 1 ~ 5
2 ~ 8	2 ~ 3	7 : 2 ~ 5
3 ~ 7		8 : 3 ~ 5
4 ~ 6		9 : 4 ~ 5
5 ~ 5		
Best Friends	Brothers	Neighbours

$$+9 = -1 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	1	4	8	7	6	8	7	6	2	4
2	9	9	9	9	9	9	9	9	9	9
3						1	2	3	8	5
Ans										

$$+8 = -2 + 10$$

NO	11	12	13	14	15	16	17	18	19	20
1	2	4	3	7	8	7	4	7	3	8
2	8	8	8	8	8	8	8	8	8	8
3						3	7	2	8	3
Ans										

$$+7 = -3 + 10$$

NO	21	22	23	24	25	26	27	28	29	30
1	4	9	3	8	4	9	3	4	9	8
2	7	7	7	7	7	7	7	7	7	7
3						2	6	5	1	3
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	6	8	7	3	2	4	4	6	2	4
2	9	9	9	9	9	9	9	9	9	9
3						5	9	4	7	5
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	4	7	3	4	8	6	2	5	1	2
2	8	8	8	8	8	3	8	4	8	5
3						8	5	8	8	8
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	4	8	3	9	4	1	4	9	4	9
2	7	7	7	7	7	8	7	7	7	7
3						7	2	2	8	2
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	3	4	6	9	2	5	4	3	8	6
2	9	5	9	8	8	2	7	7	7	2
3						8	1	2	1	8
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $4 + 6$ 、 $9 + 6$ 、 $5 + 5$
 $6 + 5$ 、 $7 + 5$ 、 $8 + 5$
 $6 + 4$ 、 $7 + 4$ 、 $8 + 4$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$+6 = -4 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	9	4	3	4	9	4	4	4	1	5
2	6	6	6	6	6	6	6	6	8	4
3						2	6	5	6	6
Ans										

$$+5 = -5 + 10$$

NO	11	12	13	14	15	16	17	18	19	20
1	5	6	7	8	9	7	8	6	9	7
2	5	5	5	5	5	5	5	5	5	5
3						5	6	7	5	5
Ans										

$$+4 = -6 + 10$$

NO	21	22	23	24	25	26	27	28	29	30
1	6	7	8	9	5	8	9	7	6	8
2	4	4	4	4	4	4	4	4	4	4
3						7	5	5	9	7
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	4	9	1	4	9	8	4	9	2	4
2	6	6	8	6	6	1	6	6	7	5
3						6	8	3	6	6
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	6	8	5	9	7	7	6	9	9	8
2	5	5	5	5	5	5	3	5	-4	5
3						7	5	-4	5	6
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	6	8	4	9	7	8	6	8	9	8
2	4	4	5	4	4	-2	4	1	4	4
3						4	5	4	-3	5
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	2	4	3	8	2	3	2	3	9	8
2	2	6	6	5	5	5	2	1	6	1
3						5	6	6	2	6
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $7 + 3$ 、 $8 + 3$ 、 $9 + 3$
 $8 + 2$ 、 $9 + 2$ 、 $7 + 3$
 $9 + 1$ 、 $8 + 3$ 、 $9 + 3$

10 Relatives / Breakdowns	5 Relatives / Breakdowns	6~9 Relatives / Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$+3 = -7 + 10$

NO	1	2	3	4	5	6	7	8	9	10
1	7	8	9	4	/	7	8	7	7	8
2	3	3	3	5	8	3	3	3	3	3
3						9	8	8	5	6
Ans										

$+2 = -8 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	8	9	4	9	8	9	4	3	8	9
2	2	2	5	2	2	2	5	6	2	2
3						8	2	2	9	8
Ans										

$+1 = -9 + 10$

NO	21	22	23	24	25	26	27	28	29	30
1	9	7	3	9	8	2	6	5	/	9
2	/	2	6	/	/	7	3	4	8	/
3						/	/	/	/	/
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	7	3	9	3	8	8	2	/	9	8
2	3	5	3	6	3	/	5	6	-/	3
3						3	3	3	3	2
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	9	9	5	7	8	9	3	7	3	5
2	-/	2	4	2	2	2	5	/	6	3
3						7	2	2	2	2
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	8	9	9	6	9	4	8	4	9	9
2	2	/	3	3	/	5	/	6	/	/
3						/	/	/	5	4
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	8	9	7	/	9	8	8	9	3	9
2	3	/	3	3	2	/	2	/	6	/
3						2	/	8	/	5
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-9$ 、 $11-9$ 、 $12-9$
 $10-8$ 、 $11-8$ 、 $12-8$
 $10-7$ 、 $11-7$ 、 $15-7$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$-9 = -10 + 1$$

NO	1	2	3	4	5	6	7	8	9	10
1	12	13	11	15	16	18	25	23	22	21
2	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
3						-8	-5	-2	-3	-2
Ans										

$$-8 = -10 + 2$$

NO	11	12	13	14	15	16	17	18	19	20
1	11	12	15	16	17	27	26	25	22	21
2	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
3						-8	-6	-7	-3	-1
Ans										

$$-7 = -10 + 3$$

NO	21	22	23	24	25	26	27	28	29	30
1	11	20	16	15	25	35	31	26	25	20
2	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7
3						-7	-3	-5	-6	-2
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	25	23	22	21	20	11	26	16	14	85
2	-9	-9	-9	-9	-9	-9	-9	-9	-2	2
3						5	-1	-1	-9	-9
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	26	25	22	21	20	25	27	21	32	76
2	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
3						-2	-7	-1	-4	-5
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	20	25	26	31	35	20	30	20	12	66
2	-7	-7	-7	-7	-7	-7	-8	-9	-8	-5
3						1	1	6	-3	-7
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	30	45	37	21	35	36	41	35	29	38
2	-9	-9	-9	-8	-8	-8	-7	-7	-3	-8
3						-8	-2	-6	-7	-7
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-6$ 、 $15-6$ 、 $10-5$
 $11-5$ 、 $12-5$ 、 $13-5$
 $10-4$ 、 $11-4$ 、 $12-4$

10 Relatives / Breakdowns	5 Relatives / Breakdowns	6~9 Relatives / Breakdowns
1~9	1~4	6: 1~5
2~8	2~3	7: 2~5
3~7		8: 3~5
4~6		9: 4~5
5~5		
Best Friends	Brothers	Neighbours

$$-6 = -10 + 4$$

NO	1	2	3	4	5	6	7	8	9	10
1	10	15	20	25	35	40	35	30	25	20
2	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
3						-3	-8	-2	-7	-4
Ans										

$$-5 = -10 + 5$$

NO	11	12	13	14	15	16	17	18	19	20
1	10	11	16	13	14	34	33	31	24	22
2	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
3						-9	-8	-6	-7	-7
Ans										

$$-4 = -10 + 6$$

NO	21	22	23	24	25	26	27	28	29	30
1	10	11	12	13	21	33	23	22	21	20
2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
3						-9	-7	-3	-6	-1
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	20	25	30	35	40	20	35	36	35	90
2	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
3						-3	-8	-6	-4	-3
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	20	10	30	27	22	20	38	26	20	11
2	-5	-5	-5	-7	-5	2	-5	-5	-5	-5
3						-5	-5	-5	-5	3
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	20	21	22	23	33	31	20	23	21	80
2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
3						-1	-6	-2	-7	-5
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	45	30	21	31	23	24	21	37	35	29
2	-6	-6	-1	-4	-5	-4	-4	-6	-5	-9
3						-5	-2	-4	-4	-4
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-3$ 、 $11-3$ 、 $12-3$
 $10-2$ 、 $11-2$ 、 $10-3$
 $10-1$ 、 $11-3$ 、 $12-3$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

$$-3 = -10 + 7$$

NO	1	2	3	4	5	6	7	8	9	10
1	10	11	12	20	21	32	23	22	21	21
2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
3						-9	-3	-3	-6	-8
Ans										

$$-2 = -10 + 8$$

NO	11	12	13	14	15	16	17	18	19	20
1	10	11	20	13	14	20	30	40	21	31
2	-2	-2	-2	-3	-4	-2	-2	-2	-2	-2
3						-7	-8	-8	-9	-8
Ans										

$$-1 = -10 + 9$$

NO	21	22	23	24	25	26	27	28	29	30
1	10	30	12	20	40	18	10	40	30	20
2	-1	-1	-2	-1	-1	-2	-1	-1	-1	-1
3						-1	-4	-9	-5	-8
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	20	21	22	30	32	30	38	38	34	22
2	-3	-3	-3	-3	-3	-3	-8	-8	-3	-2
3						-5	-1	-3	-3	-2
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	20	21	30	31	40	21	20	21	23	78
2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-7
3						-9	-5	-6	-2	-2
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	20	30	40	10	20	30	24	32	41	67
2	-1	-1	-1	-1	-1	-1	-4	-2	-1	-7
3						-2	-1	-1	-1	-1
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	31	40	26	30	42	28	29	30	28	33
2	-3	-1	-5	-1	-3	-8	-9	-1	-8	-3
3						-2	-1	-9	-1	-1
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $1 + 4$ 、 $2 + 4$ 、 $3 + 4$
 $2 + 3$ 、 $3 + 3$ 、 $4 + 3$
 $3 + 2$ 、 $4 + 2$ 、 $4 + 1$

10 Relatives / Breakdowns	5 Relatives / Breakdowns	6-9 Relatives / Breakdowns
1 ~ 9	1 ~ 4	6 : 1 ~ 5
2 ~ 8	2 ~ 3	7 : 2 ~ 5
3 ~ 7		8 : 3 ~ 5
4 ~ 6		9 : 4 ~ 5
5 ~ 5		
Best Friends	Brothers	Neighbours

$+4 = +5 - 1$ ($+4 = 5, 1$ push down)

NO	1	2	3	4	5	6	7	8	9	10
1	3/	22	13	54	43	14	44	62	24	23
2	4	4	4	4	4	4	4	4	4	4
3						-5	1	-5	-3	-5
Ans										

$+3 = +5 - 2$ ($+3 = 5, 2$ push down)

NO	11	12	13	14	15	16	17	18	19	20
1	12	23	34	22	52	12	24	62	23	14
2	3	3	4	3	3	3	3	3	3	3
3						3	-5	4	-5	-5
Ans										

$+2 = +5 - 3$ ($+2 = 5, 3$ push down)

NO	21	22	23	24	25	26	27	28	29	30
1	53	24	34	43	23	29	43	23	18	34
2	2	2	2	2	2	-5	2	1	-5	2
3						2	4	2	2	-5
Ans										

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $5 - 4$ 、 $6 - 4$ 、 $7 - 4$
 $5 - 3$ 、 $6 - 3$ 、 $7 - 3$
 $5 - 2$ 、 $6 - 2$ 、 $5 - 1$

10 Relatives / Breakdowns	5 Relatives / Breakdowns	6-9 Relatives / Breakdowns
1 ~ 9	1 ~ 4	6 : 1 ~ 5
2 ~ 8	2 ~ 3	7 : 2 ~ 5
3 ~ 7		8 : 3 ~ 5
4 ~ 6		9 : 4 ~ 5
5 ~ 5		
Best Friends	Brothers	Neighbours

$-4 = + / - 5$ ($-4 = 5$, / push up)

NO	1	2	3	4	5	6	7	8	9	10
1	25	16	37	28	16	26	38	27	16	55
2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
3						5	-2	5	6	5
Ans										

$-3 = + 2 - 5$ ($-3 = 5$, 2 push up)

NO	11	12	13	14	15	16	17	18	19	20
1	25	36	27	35	45	17	25	57	26	65
2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
3						-1	7	-2	-2	5
Ans										

$-2 = + 3 - 5$ ($-2 = 5$, 3 push up)

NO	21	22	23	24	25	26	27	28	29	30
1	25	16	35	26	45	25	16	31	26	15
2	-2	-2	-2	-2	-2	-2	-2	5	-2	-2
3						-3	-2	-2	-1	-3
Ans										

$+ / = + 5 - 4$ ($+ / = 5, 4$ push down)

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	24	34	14	24	54	23	34	12	21	14
2	/	/	/	/	/	/	/	2	3	/
3						/	3	/	/	4
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	23	14	22	33	24	12	23	64	22	99
2	4	4	4	4	4	4	4	4	4	-8
3						-5	-1	-3	-1	4
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	22	14	32	23	64	22	13	34	23	52
2	3	3	3	3	3	3	3	3	/	3
3						3	2	/	3	3
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	24	13	33	44	59	63	22	33	24	61
2	2	2	2	2	/	/	2	/	/	3
3						3	/	/	2	/
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

$-1 = +4 - 5$ ($-1 = 5, 4$ push up)

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	25	16	35	55	45	14	52	21	13	35
2	-1	-1	-1	-1	-1	-1	5	5	5	-1
3						-1	-1	-1	-1	-4
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	25	16	27	18	26	37	56	19	37	69
2	-4	-4	-4	-4	-4	-2	-1	-4	-2	-4
3						-3	-4	-2	-1	-4
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	25	16	37	15	57	21	31	27	16	95
2	-3	-3	-3	-3	-3	6	5	-3	-3	-3
3						-3	-3	-4	-2	-1
Ans										

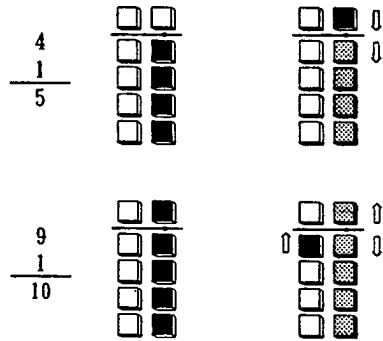
NO	61	62	63	64	65	66	67	68	69	70
1	25	36	45	26	55	15	56	37	28	99
2	-2	-2	-2	-2	-2	-1	-1	-2	-3	-4
3						-2	-1	-1	-1	-1
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $4 + 1$ 、 $9 + 1$ 、 $5 - 1$
 $6 - 2$ 、 $5 - 2$ 、 $7 - 3$
 $6 - 3$ 、 $5 - 3$ 、 $7 - 4$



$+ / = + 5 - 4$ ($+ / = 5, 4$ push down)

NO	1	2	3	4	5	6	7	8	9	10
1	4	2	3	4	3	4	2	/	4	/
2	/	2	/	/	5	/	2	3	/	3
3						3	/	/	4	/
Ans										

$+ / = - 9 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	9	7	3	9	8	2	6	5	/	9
2	/	2	6	/	/	7	3	4	8	/
3						/	/	/	/	/
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	4	9	4	2	/	/	6	2	9	4
2	5	/	/	6	3	8	3	2	/	/
3						/	/	/	7	2
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	4	3	/	2	5	4	9	8	3	7
2	/	6	3	5	4	/	/	/	/	2
3						3	/	/	/	/
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	9	4	6	2	2	3	4	9	/	4
2	/	/	2	2	7	/	/	/	3	/
3						/	2	5	/	/
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	9	6	7	9	6	4	5	8	9	3
2	-/	-6	2	/	/	/	4	-7	-5	6
3						-5	/	3	/	/
Ans										

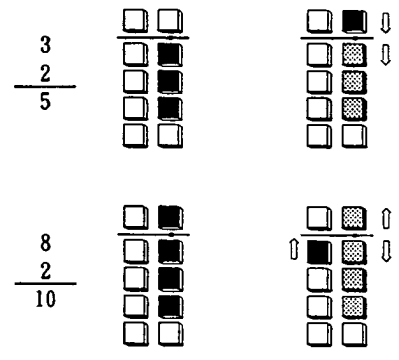
NO	61	62	63	64	65	66	67	68	69	70
1	4	6	9	7	2	/	9	8	/	4
2	/	3	/	/	6	4	/	/	3	2
3						4	3	/	/	2
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $3 + 2$, $4 + 2$, $4 + 1$
 $8 + 2$, $9 + 2$, $9 + 1$
 $7 - 4$, $5 - 3$, $6 - 3$



$+2 = +5 - 3$ ($+2 = 5, 3$ push down)

NO	1	2	3	4	5	6	7	8	9	10
1	3	4	/	2	3	9	3	3	8	4
2	2	2	3	2	2	-5	2	/	-5	2
3						2	4	2	2	-5
Ans										

$+2 = -8 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	8	9	4	8	2	9	4	3	8	9
2	2	2	5	2	7	2	5	6	2	2
3						3	2	2	9	8
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	9	9	3	3	5	3	3	7	9	8
2	2	-8	2	6	4	2	2	2	-5	2
3						3	/	2	2	7
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	3	5	4	2	/	7	2	9	3	3
2	2	3	2	6	3	/	2	2	/	5
3						2	2	7	2	2
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	8	3	9	4	6	3	8	9	4	3
2	2	2	2	2	3	/	2	2	5	5
3						2	4	5	2	2
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	8	3	9	/	2	/	4	9	2	4
2	2	2	-6	6	/	2	2	-1	6	2
3						2	-1	2	2	/
Ans										

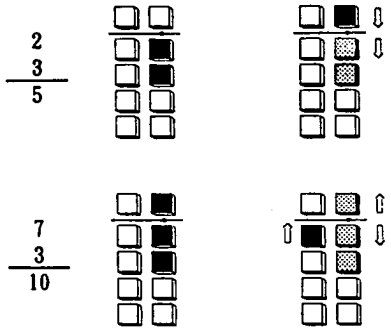
NO	61	62	63	64	65	66	67	68	69	70
1	5	3	9	4	2	6	4	4	9	/
2	2	6	-5	2	2	3	/	/	2	3
3						/	2	3	7	/
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $2 + 3$ 、 $3 + 3$ 、 $4 + 3$
 $7 + 3$ 、 $8 + 3$ 、 $9 + 3$
 $3 + 2$ 、 $4 + 2$ 、 $4 + 1$



$+3 = +5 - 2$ ($+3 = 5, 2$ push down)

NO	1	2	3	4	5	6	7	8	9	10
1	2	3	4	3	2	2	4	2	3	4
2	3	3	3	/	2	3	3	3	3	3
3						3	-5	4	-5	-5
Ans										

$+3 = -7 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	7	8	9	4	/	7	8	7	7	8
2	3	3	3	5	8	3	3	3	3	3
3						9	8	8	5	6
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	9	2	5	4	8	2	3	3	4	3
2	3	3	4	3	3	3	3	6	3	5
3						4	-5	3	-5	3
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	2	8	3	2	4	/	3	2	2	3
2	3	/	3	5	3	6	/	/	3	5
3						3	3	3	/	3
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	7	2	2	8	4	4	/	7	2	4
2	3	7	3	3	3	3	8	3	3	5
3						-5	3	7	4	3
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	8	3	9	3	/	2	/	9	7	3
2	3	3	3	/	/	2	2	-2	3	3
3						3	3	3	2	/
Ans										

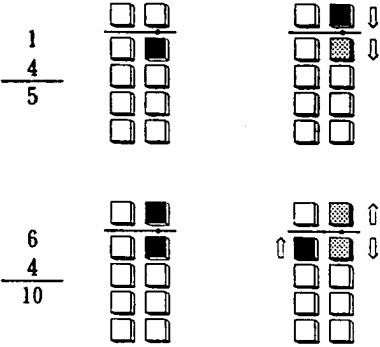
NO	61	62	63	64	65	66	67	68	69	70
1	/	7	6	9	8	8	4	4	5	9
2	3	3	3	3	-5	2	2	2	3	-/
3						7	-5	3	2	2
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $1 + 4$, $2 + 4$, $3 + 4$
 $4 + 4$, $6 + 4$, $7 + 4$
 $8 + 4$, $9 + 4$, $7 + 3$



$+4 = +5 - 1$ ($+4 = 5$, -1 push down)

NO	1	2	3	4	5	6	7	8	9	10
1	/	2	3	4	2	4	3	2	4	3
2	4	4	4	4	2	4	4	4	4	4
3						-5	2	-5	-3	-5
Ans										

$+4 = -6 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	6	7	8	9	5	8	9	7	6	8
2	4	4	4	4	4	4	4	4	4	4
3						7	5	5	9	7
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	3	7	4	6	8	4	3	3	4	2
2	4	2	4	4	4	5	4	6	4	2
3						4	-7	4	-5	5
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	6	2	9	4	8	3	/	2	9	/
2	4	4	4	4	/	4	4	4	4	4
3						-2	4	/	5	3
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	2	9	9	8	/	6	4	8	5	3
2	6	-3	4	4	4	4	5	-5	/	6
3						3	4	4	4	4
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	2	5	7	5	3	9	6	6	8	4
2	4	4	4	3	4	-1	-5	4	4	4
3						4	4	7	6	-3
Ans										

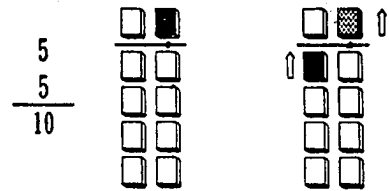
NO	61	62	63	64	65	66	67	68	69	70
1	4	8	/	6	7	9	7	2	9	/
2	4	4	4	4	4	3	3	3	-7	/
3						-2	4	4	3	3
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural
mental arithmetic.

2. Exercises: $5 + 5$, $6 + 5$, $7 + 5$
 $8 + 5$, $9 + 5$, $6 + 4$
 $7 + 4$, $8 + 4$, $9 + 4$



$$+ 5 = - 5 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	5	6	7	8	9	7	8	6	9	7
2	5	5	5	5	5	5	5	5	5	5
3						5	6	7	5	5
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	7	8	5	9	8	4	7	9	8	2
2	5	5	5	5	5	5	5	5	5	7
3						5	2	5	6	5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	9	6	8	6	5	9	8	3	1	7
2	5	5	5	3	5	5	5	6	8	5
3						5	-1	5	5	2
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	7	5	5	3	8	7	6	9	9	8
2	5	2	5	6	5	5	5	5	-4	5
3						7	3	-4	5	6
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	6	8	6	9	/	8	7	7	/	/
2	5	-/	/	5	8	5	5	-/	5	6
3						/	5	5	5	5
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	9	8	8	4	2	7	4	5	2	8
2	5	-2	5	-2	6	5	5	5	7	5
3						7	5	/	5	4
Ans										

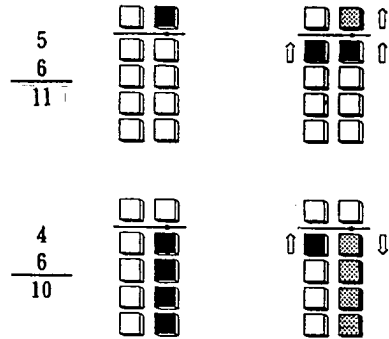
NO	61	62	63	64	65	66	67	68	69	70
1	9	7	6	6	5	8	3	8	4	9
2	-4	5	5	-/	5	5	4	4	4	4
3						/	3	7	/	4
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $5 + 6$, $6 + 6$, $7 + 6$
 $8 + 6$, $4 + 6$, $9 + 6$
 $5 + 5$, $6 + 5$, $7 + 5$



$$+6 = +1 - 5 + 10$$

NO	1	2	3	4	5	6	7	8	9	10
1	5	6	7	8	9	9	8	7	6	5
2	6	6	6	6	-2	-1	6	6	6	6
3						6	-1	-2	2	5
Ans										

$$+6 = -4 + 10$$

NO	11	12	13	14	15	16	17	18	19	20
1	9	4	9	4	9	9	4	4	1	5
2	6	6	6	6	-6	6	6	6	8	4
3						2	6	5	6	6
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	9	4	8	9	7	1	6	4	5	9
2	-1	6	6	6	6	8	6	6	6	6
3						6	-2	1	3	4
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	9	6	9	8	7	4	6	9	5	2
2	-2	6	6	1	6	6	6	6	6	7
3						8	5	3	3	6
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	5	7	2	4	8	2	1	5	4	6
2	6	2	5	6	6	2	5	4	6	5
3						6	6	6	6	1
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	6	4	9	5	7	5	7	4	5	9
2	-1	6	-4	1	6	3	6	6	6	6
3						6	5	8	7	6
Ans										

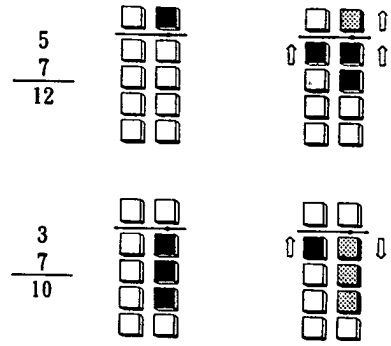
NO	61	62	63	64	65	66	67	68	69	70
1	9	8	5	6	3	5	9	4	5	8
2	6	6	6	6	5	2	-4	5	5	5
3						5	5	5	6	6
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $5 + 7$, $6 + 7$, $7 + 7$
 $3 + 7$, $4 + 7$, $8 + 7$
 $9 + 7$, $5 + 6$, $6 + 6$



$+7 = +2 - 5 + 10$

NO	1	2	3	4	5	6	7	8	9	10
1	5	6	7	7	9	9	6	5	6	7
2	7	7	7	-2	-3	-2	7	7	7	7
3						7	5	6	1	5
Ans										

$+7 = -3 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	4	9	3	8	4	9	3	4	9	8
2	7	7	7	7	7	7	7	7	7	7
3						2	6	5	1	3
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	3	7	4	6	8	5	3	6	9	9
2	7	7	7	7	7	7	7	7	7	-2
3						6	8	1	3	7
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	29	29	14	57	39	37	21	66	79	75
2	7	-3	7	-2	7	7	8	7	7	7
3						5	7	6	2	1
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	24	51	66	52	18	79	62	53	26	64
2	7	8	7	6	7	7	1	7	7	7
3						-6	7	6	7	2
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	64	75	25	21	56	38	69	51	64	59
2	7	7	7	8	7	7	7	7	-1	7
3						2	-6	7	7	-5
Ans										

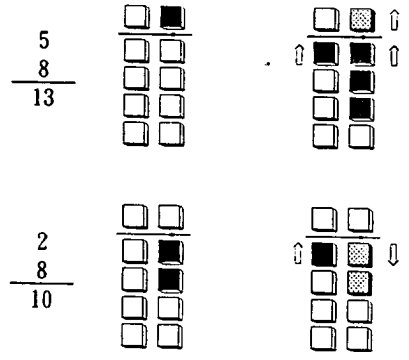
NO	61	62	63	64	65	66	67	68	69	70
1	36	57	32	19	39	84	32	66	52	54
2	7	7	5	7	7	-1	7	6	2	6
3						6	4	5	6	7
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $5 + 8$ 、 $6 + 8$ 、 $2 + 8$
 $3 + 8$ 、 $4 + 8$ 、 $7 + 8$
 $8 + 8$ 、 $9 + 8$ 、 $5 + 8$



$+8 = +3 - 5 + 10$

NO	1	2	3	4	5	6	7	8	9	10
1	5	6	6	7	8	26	15	59	38	26
2	8	8	-1	-1	-2	8	8	-3	-2	-1
3						5	1	8	8	8
Ans										

$+8 = -2 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	2	4	3	7	8	27	34	17	53	28
2	8	8	8	8	8	8	8	8	8	8
3						3	7	2	8	3
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	5	9	8	3	9	25	25	13	16	81
2	8	8	8	8	-3	4	8	8	8	5
3						8	-2	1	-1	2
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	24	33	17	26	53	16	34	27	28	88
2	8	8	8	8	8	-1	8	-1	8	-2
3						8	6	8	2	8
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	59	25	16	58	65	28	68	19	21	72
2	8	8	8	8	8	1	7	8	5	8
3						8	8	7	8	4
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	74	53	68	79	59	21	59	18	75	58
2	8	8	8	8	-7	3	8	8	8	-5
3						8	1	3	8	8
Ans										

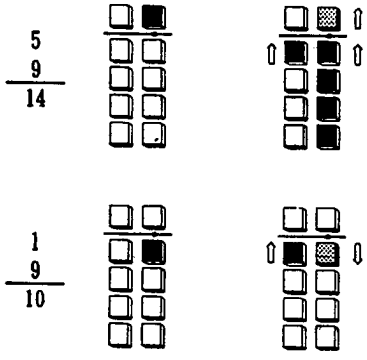
NO	61	62	63	64	65	66	67	68	69	70
1	59	71	24	13	55	21	19	37	66	15
2	8	5	8	8	8	8	-5	7	7	4
3						7	7	-2	-3	7
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $5 + 9$, $1 + 9$, $2 + 9$
 $3 + 9$, $4 + 9$, $6 + 9$
 $7 + 9$, $8 + 9$, $9 + 9$



$+9 = +4 - 5 + 10$

NO	1	2	3	4	5	6	7	8	9	10
1	15	25	55	35	29	15	29	28	17	56
2	9	9	9	9	-4	9	-4	-3	-2	-1
3						5	9	9	9	9
Ans										

$+9 = -1 + 10$

NO	11	12	13	14	15	16	17	18	19	20
1	21	34	18	27	56	28	77	26	12	34
2	9	9	9	9	9	9	9	9	9	9
3						1	2	3	8	5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	67	26	35	18	19	37	28	56	55	22
2	9	9	9	9	9	9	-3	9	9	9
3						1	9	3	5	6
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	29	14	35	11	26	18	12	64	27	66
2	9	9	9	9	9	-3	9	9	-2	-1
3						9	7	5	9	9
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	62	24	21	69	58	37	62	27	74	21
2	9	9	9	9	9	8	8	9	9	9
3						9	9	9	-3	4
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	57	70	64	79	37	73	24	86	25	18
2	9	2	9	9	9	9	8	8	4	9
3						1	9	5	9	2
Ans										

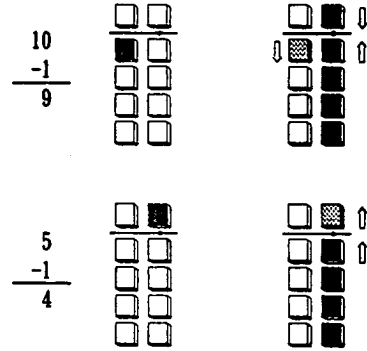
NO	61	62	63	64	65	66	67	68	69	70
1	22	16	25	27	31	51	69	29	14	26
2	7	9	9	9	9	5	-7	8	8	8
3						8	8	-5	5	-3
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $5 + 6$ 、 $5 + 7$ 、 $5 + 8$
 $5 + 9$ 、 $11 - 6$ 、 $12 - 7$
 $13 - 8$ 、 $14 - 9$ 、 $5 - 4$



$$-1 = -10 + 9$$

NO	1	2	3	4	5	6	7	8	9	10
1	10	60	20	13	70	18	10	40	30	20
2	-1	-1	-1	-3	-1	-2	-1	-1	-1	-1
3						-1	-2	-9	-5	-8
Ans										

$$-1 = +4 - 5 \quad (-1 = 5, 4 \text{ push up})$$

NO	11	12	13	14	15	16	17	18	19	20
1	25	16	35	65	45	14	52	21	13	35
2	-1	-1	-1	-1	-1	-1	5	5	5	-1
3						-1	-1	-1	-1	-4
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	35	20	25	30	15	40	23	10	15	20
2	-1	-1	-1	-1	-1	-1	5	-1	-1	-1
3						-9	-1	-1	-1	-1
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	30	15	24	55	35	37	41	28	67	99
2	-1	-1	-4	-1	-1	-2	-1	-3	-7	-4
3						-1	-1	-1	-1	-1
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	80	12	70	75	25	52	49	23	78	23
2	-1	7	-1	-1	-1	7	-9	-3	1	5
3						-1	-1	-1	-1	1
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	25	40	65	35	20	80	29	59	40	58
2	-1	-1	-1	-1	5	-1	-4	-4	-1	-3
3						3	-1	-1	-5	-1
Ans										

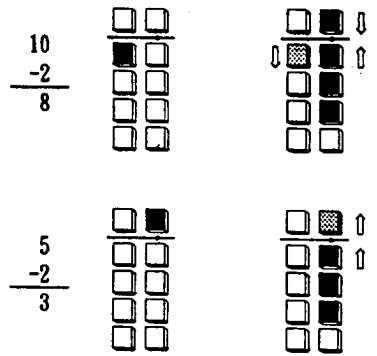
NO	61	62	63	64	65	66	67	68	69	70
1	75	60	45	55	20	69	85	20	72	23
2	-1	-1	-1	-1	-1	9	9	5	7	9
3						-6	-3	9	9	7
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10 - 2$ 、 $11 - 2$ 、 $5 - 2$
 $6 - 2$ 、 $10 - 1$ 、 $5 - 1$
 $5 + 9$ 、 $1 + 9$ 、 $2 + 9$



$-2 = -10 + 8$

NO	1	2	3	4	5	6	7	8	9	10
1	10	11	31	60	21	20	30	40	21	31
2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
3						-7	-8	-8	-9	-8
Ans										

$-2 = +3 - 5$ ($-2 = 5, 3$ push up)

NO	11	12	13	14	15	16	17	18	19	20
1	25	16	35	65	46	25	16	33	26	15
2	-2	-2	-2	-2	-2	-2	-2	5	-2	-2
3						-3	-2	-2	-1	-3
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	26	20	36	30	13	21	21	55	31	40
2	-2	-2	-2	-2	6	-2	-2	-2	-2	-2
3						-9	5	6	-8	-7
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	21	31	20	25	41	17	23	26	28	55
2	2	-2	-2	-2	-2	-2	-2	-2	-7	-2
3						-2	-2	-2	-2	-1
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	46	60	36	11	80	20	35	23	56	48
2	-2	-2	-2	5	-2	5	-2	-2	-2	-7
3						-2	6	-2	-1	-2
Ans										

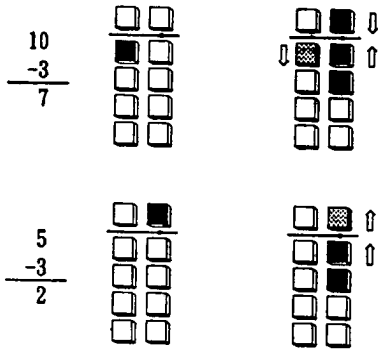
NO	51	52	53	54	55	56	57	58	59	60
1	35	65	71	78	30	53	21	56	48	48
2	-2	-2	-2	-3	-2	-3	5	-2	-2	-8
3						-2	-2	-2	-2	-2
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	65	55	26	61	18	65	75	35	40	25
2	-2	-2	-2	-2	-3	-1	-5	-1	-1	-1
3						-3	-1	7	-5	5
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-3$ 、 $11-3$ 、 $12-3$
 $5-3$ 、 $6-3$ 、 $7-3$
 $10-2$ 、 $11-2$ 、 $5-2$



$$-3 = -10 + 7$$

NO	1	2	3	4	5	6	7	8	9	10
1	10	11	12	20	21	32	23	21	21	21
2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
3						-9	-3	-3	-6	-8
Ans										

$$-3 = +2 - 5 \quad (-3 = 5, 2 \text{ push up})$$

NO	11	12	13	14	15	16	17	18	19	20
1	25	36	27	45	26	17	17	57	26	65
2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
3						-2	-1	-2	-2	5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	55	20	16	21	37	22	15	30	57	32
2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
3						-8	7	-7	-1	-9
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	30	22	36	31	38	27	33	16	92	95
2	-3	-3	-3	-3	-5	-3	-3	-3	-3	-3
3						-4	-3	-2	-6	-1
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	65	25	52	80	72	28	61	81	97	25
2	-3	-3	5	-3	-3	-3	5	5	-3	2
3						-4	-3	-3	-4	-2
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	57	42	20	35	21	60	17	46	30	46
2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
3						-3	-3	6	-6	5
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	65	32	26	40	27	29	30	54	29	31
2	-3	-3	-3	-3	-3	-4	-2	6	-4	-2
3						-2	-8	-2	-2	-5
Ans										

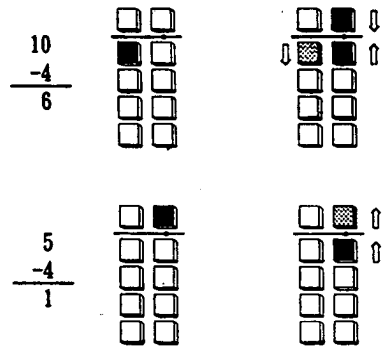
★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-4$ 、 $11-4$ 、 $12-4$
 $5-4$ 、 $6-4$ 、 $7-4$
 $8-4$ 、 $10-3$ 、 $11-3$

To teach page 126, 2 digits and more (divide teaching into 5 times)



$$-4 = -10 + 6$$

NO	1	2	3	4	5	6	7	8	9	10
1	10	11	12	13	21	33	23	22	21	20
2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
3						-9	-7	-3	-6	-1
Ans										

$$-4 = + / - 5 \quad (-4 = 5, / \text{ push up})$$

NO	11	12	13	14	15	16	17	18	19	20
1	25	16	37	28	17	26	38	27	16	55
2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
3						5	-2	5	6	5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	25	31	20	18	26	33	23	27	22	21
2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
3						-9	-8	5	-5	-6
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	37	20	56	31	15	23	26	21	68	80
2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
3						-2	1	-7	-4	-5
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	71	68	23	57	71	37	81	22	16	23
2	7	-4	-4	-4	-4	-4	5	5	2	-4
3						5	-3	-4	-4	-3
Ans										

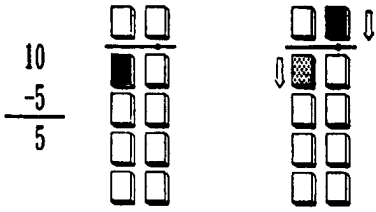
NO	51	52	53	54	55	56	57	58	59	60
1	28	35	78	83	45	75	77	45	62	88
2	-4	-4	-4	-4	-4	-4	-6	-4	5	-4
3						3	-4	8	-4	5
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	32	80	55	76	61	73	62	21	35	27
2	-4	-4	-4	-4	-4	-3	-3	5	-3	-3
3						-3	-4	-3	8	-4
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-5$ 、 $11-5$ 、 $12-5$
 $13-5$ 、 $14-5$ 、 $10-4$
 $11-4$ 、 $12-4$ 、 $5-4$



$-5 = -10 + 5$

NO	1	2	3	4	5	6	7	8	9	10
1	10	11	12	13	14	34	33	31	24	22
2	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
3						-9	-8	-6	-7	-7
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	12	20	43	21	32	23	41	42	40	72
2	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
3						-1	-1	-7	-5	-7
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	34	63	42	64	30	44	61	32	83	60
2	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
3						-3	-6	-2	-8	-5
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	20	10	30	21	40	20	38	26	20	11
2	-5	-5	-5	-5	-5	2	-5	-5	-5	-5
3						-5	-5	-5	-5	-5
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	41	44	22	68	64	34	24	42	83	89
2	-5	-5	-5	-6	-5	-4	-5	-5	-5	-6
3						-5	-4	-6	-3	-5
Ans										

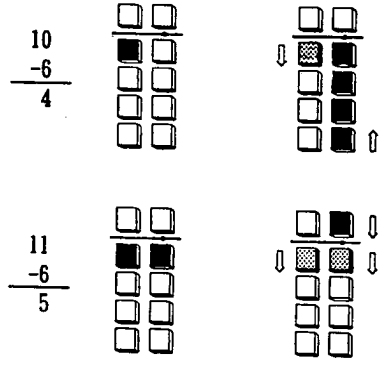
NO	51	52	53	54	55	56	57	58	59	60
1	62	43	24	72	31	70	76	84	42	34
2	-5	-5	-5	-5	-5	-5	-6	-5	-5	-5
3						4	-5	-2	-7	-3
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	92	42	61	32	70	76	37	24	20	35
2	-5	-5	-5	-5	-5	-4	-4	-4	-5	-5
3						-2	5	-4	-4	-4
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-6$ 、 $15-6$ 、 $11-6$
 $12-6$ 、 $13-6$ 、 $14-6$
 $10-5$ 、 $11-5$ 、 $12-5$



$-6 = -10 + 4$

NO	1	2	3	4	5	6	7	8	9	10
1	10	15	20	25	35	40	35	30	25	20
2	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
3						-3	-8	-2	-7	-4
Ans										

$-6 = -10 + 5 - 1$

NO	11	12	13	14	15	16	17	18	19	20
1	41	11	21	13	14	59	24	23	22	21
2	-6	-6	-6	-6	-6	-5	-6	-6	-6	-6
3						-4	-3	-2	-5	-5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	23	20	24	25	22	30	21	35	14	40
2	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
3						-5	-5	-9	-6	-4
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	20	35	21	60	13	35	12	90	24	84
2	-6	-6	-6	-6	-6	-6	-6	-6	-2	-6
3						-4	3	-3	-4	-5
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	25	70	40	64	33	78	64	14	89	43
2	-6	5	-6	-6	-6	-3	-6	-6	-4	-6
3						-6	-8	1	-6	1
Ans										

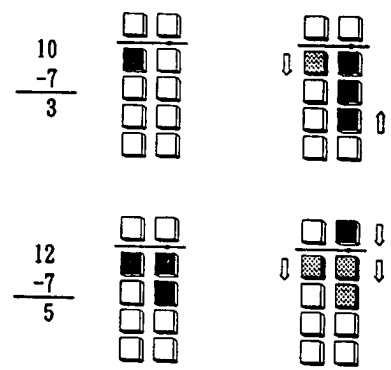
NO	51	52	53	54	55	56	57	58	59	60
1	44	23	41	30	85	79	39	47	34	25
2	-6	-6	-6	-6	-6	-9	1	-6	-6	-6
3						-6	-6	-6	-6	-9
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	74	24	47	34	45	79	65	60	70	15
2	-6	-6	-5	-6	-6	-9	-5	-5	-5	-5
3						-5	-5	1	4	-5
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-7$ 、 $11-7$ 、 $15-7$
 $16-7$ 、 $12-7$ 、 $13-7$
 $14-7$ 、 $10-6$ 、 $15-6$



$-7 = -10 + 3$

NO	1	2	3	4	5	6	7	8	9	10
1	11	20	16	15	25	35	31	26	25	20
2	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7
3						-7	-3	-5	-6	-2
Ans										

$-7 = -10 + 5 - 2$

NO	11	12	13	14	15	16	17	18	19	20
1	32	23	12	13	14	18	27	24	23	22
2	-7	-7	-7	-7	-7	-5	-5	-7	-7	-7
3						-7	-7	-5	-6	-5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	14	31	20	22	25	23	26	24	31	11
2	-7	-7	-7	-7	-7	-7	-7	-7	-7	3
3						-5	-4	-1	-4	-7
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	35	36	20	14	30	13	26	72	27	43
2	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7
3						-5	-2	2	-7	-5
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	80	25	70	90	32	62	81	60	17	70
2	-7	-7	-7	-7	-7	-7	-7	6	-2	-7
3						2	5	-7	-7	6
Ans										

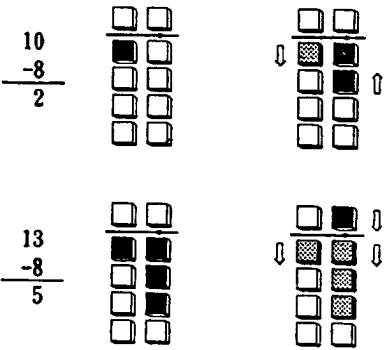
NO	51	52	53	54	55	56	57	58	59	60
1	94	40	26	24	75	63	96	64	60	90
2	-7	-7	-7	-7	-7	-7	-7	-7	-7	/
3						/	/	2	/	-7
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	65	13	21	83	68	31	37	21	72	24
2	-7	-7	-7	-7	-8	9	-5	9	-6	-6
3						-6	-6	-6	-5	-7
Ans										

★ Practise 3 times for each question. Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: 10-8, 11-8, 12-8
 15-8, 16-8, 17-8
 13-8, 14-8, 10-7



$-8 = -10 + 2$

NO	1	2	3	4	5	6	7	8	9	10
1	11	12	15	16	17	27	26	25	22	21
2	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
3						-8	-6	-7	-3	-1
Ans										

$-8 = -10 + 5 - 3$

NO	11	12	13	14	15	16	17	18	19	20
1	34	23	12	13	14	39	13	14	23	24
2	-8	-8	2	-8	-8	-5	-8	-8	-8	-8
3						-8	-5	-5	-5	-6
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	24	26	23	25	36	22	13	21	24	20
2	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
3						-2	-3	-3	3	5
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	25	28	27	34	21	29	32	28	76	44
2	-8	-5	-8	-8	-8	-5	-8	-5	-8	-8
3						-8	-4	-8	-5	-5
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	42	92	42	24	26	21	69	28	63	78
2	-8	-8	-8	-8	-8	-8	/	-5	-8	-7
3						-2	-8	-8	-5	-8
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	90	41	83	43	47	38	64	41	78	44
2	-8	5	-8	-8	-8	-8	-8	-8	-5	-8
3						-8	/	5	-8	3
Ans										

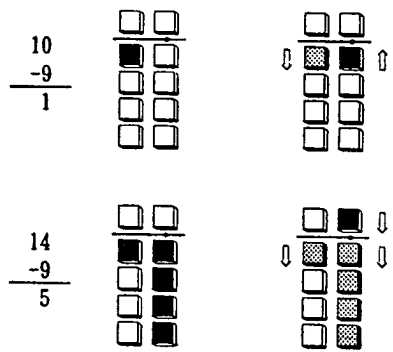
NO	61	62	63	64	65	66	67	68	69	70
1	32	73	45	41	67	31	46	93	59	66
2	-8	-8	-8	-8	-8	9	-7	-7	/	-7
3						-7	-7	-5	-7	-5
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10-9$ 、 $11-9$ 、 $12-9$
 $13-9$ 、 $15-9$ 、 $16-9$
 $17-9$ 、 $18-9$ 、 $14-9$



$$-9 = -10 + 1$$

NO	1	2	3	4	5	6	7	8	9	10
1	12	13	11	15	16	18	25	23	22	21
2	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
3						-9	-5	-2	-3	-2
Ans										

$$-9 = -10 + 5 - 4$$

NO	11	12	13	14	15	16	17	18	19	20
1	44	24	12	64	14	29	24	34	24	14
2	-9	-9	2	-9	-9	-5	-9	-9	-9	-9
3						-9	-5	-5	-5	-5
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	14	25	24	23	34	22	14	21	24	20
2	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
3						5	3	6	-5	5
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	11	14	26	23	16	12	14	11	85	80
2	-9	-9	-9	-9	-9	2	-2	3	2	4
3						-9	-9	-9	-9	-9
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	37	34	37	60	44	35	99	85	73	45
2	-9	-9	-2	-9	-9	-9	-8	-8	-8	-9
3						3	-9	-9	-9	-8
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	56	15	31	63	22	38	77	51	27	18
2	-9	-9	-9	-9	-9	-9	-9	3	-5	-9
3						-7	-9	-9	-9	1
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	72	32	35	86	53	22	37	80	36	74
2	-9	-9	-9	-9	-9	5	-5	-8	-8	-8
3						-8	-8	5	-8	-6
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

1. Instruction: Practise counting, aural mental arithmetic.

2. Exercises: $10 - 1$ 、 $5 - 1$ 、 $5 + 9$
 $1 + 9$ 、 $2 + 9$ 、 $3 + 9$
 $4 + 9$ 、 $6 + 9$ 、 $7 + 9$

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6~9 Relatives /Breakdowns
1~9	1~4	6 : 1~5
2~8	2~3	7 : 2~5
3~7		8 : 3~5
4~6		9 : 4~5
5~5		
Best Friends	Brothers	Neighbours

Revision

NO	1	2	3	4	5	6	7	8	9	10
1	2	7	5	8	2	3	4	2	8	7
2	3	4	9	9	4	5	/	5	7	/
3						7	3	5	5	5
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	4	9	2	5	3	5	6	2	9	2
2	2	3	4	6	9	4	/	8	5	/
3						7	4	3	3	7
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	8	5	2	6	4	6	9	6	4	2
2	4	5	8	7	3	/	4	5	/	9
3						4	5	7	3	3
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	5	6	7	2	6	5	5	2	8	2
2	9	8	9	4	9	4	/	7	3	/
3						8	5	4	5	3
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	6	8	2	4	7	2	6	8	5	2
2	4	5	3	2	5	/	3	4	/	8
3						5	/	9	3	6
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	4	/	7	9	5	3	7	3	7	5
2	9	4	7	2	8	6	2	9	/	4
3						/	3	6	2	8
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	7	9	3	7	5	3	4	2	9	/
2	5	/	8	4	7	9	3	/	6	2
3						4	5	5	5	3
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

Congratulations!

You have just completed learning the rudiments of abacus mental arithmetic. You are now qualified to start Abacus Arithmetic Book for grade 13.

10 Relatives /Breakdowns	5 Relatives /Breakdowns	6-9 Relatives /Breakdowns
1 ~ 9	1 ~ 4	6 : 1 ~ 5
2 ~ 8	2 ~ 3	7 : 2 ~ 5
3 ~ 7		8 : 3 ~ 5
4 ~ 6		9 : 4 ~ 5
5 ~ 5		
Best Friends	Brothers	Neighbours

Revision

NO	1	2	3	4	5	6	7	8	9	10
1	9	5	2	2	7	5	5	2	9	2
2	6	-2	9	8	8	4	-1	7	3	3
3						9	6	8	-1	4
Ans										

NO	11	12	13	14	15	16	17	18	19	20
1	7	8	4	5	8	5	2	8	4	4
2	9	-4	2	7	6	1	7	1	5	3
3						6	-9	3	-2	6
Ans										

NO	21	22	23	24	25	26	27	28	29	30
1	8	6	5	3	7	2	4	5	7	4
2	9	7	9	9	4	9	6	5	3	8
3						1	-3	2	-9	6
Ans										

Score: _____

NO	31	32	33	34	35	36	37	38	39	40
1	3	7	5	2	5	7	/	8	3	2
2	8	9	6	4	-3	6	8	2	5	9
3						9	-7	4	-1	3
Ans										

NO	41	42	43	44	45	46	47	48	49	50
1	6	8	3	5	7	4	3	9	7	3
2	9	5	2	-2	4	/	8	6	2	6
3						5	-2	/	-4	5
Ans										

NO	51	52	53	54	55	56	57	58	59	60
1	5	8	4	7	/	4	8	7	6	5
2	7	3	9	-4	9	9	5	6	-4	8
3						/	-2	3	7	9
Ans										

NO	61	62	63	64	65	66	67	68	69	70
1	6	8	3	6	3	9	7	8	4	5
2	7	2	9	4	9	6	3	9	7	3
3						/	-8	/	-2	6
Ans										

★ Practise 3 times for each question.

Parent's signature: _____

Abacus Mental Arithmetic Rudiments Answers (115-li)

Authored by: Tai Chiang Ching

No.	Page 36 37	Page 38 39	Page 40 41	Page 42 43	Page 44 45	Page 46 47	Page 48 49	Page 50 51	Page 52 53	Page 54 55
1	4	4	5	0	5	5	17	16	15	10
2	1	6	0	3	8	0	16	11	9	15
3	3	8	1	2	0	2	10	15	11	8
4	1	1	1	1	8	1	18	10	8	8
5	1	5	5	0	9	2	15	16	16	10
6	0	9	2	0	0	0	13	12	10	4
7	0	8	1	2	8	1	12	10	15	8
8	3	7	1	2	2	3	11	11	11	10
9	0	1	3	3	2	1	10	15	10	15
10	3	9	0	2	8	9	13	12	16	7
11	4	9	5	4	0	5	18	10	16	15
12	4	2	1	6	6	8	15	4	3	9
13	3	3	0	1	2	3	9	17	10	9
14	4	4	6	6	8	0	13	12	7	10
15	3	5	0	7	0	0	12	15	11	0
16	4	3	2	1	0	1	8	11	10	9
17	3	5	0	7	2	9	18	17	4	4
18	0	4	8	9	0	5	3	11	5	10
19	0	7	0	3	2	8	6	17	1	8
20	1	5	6	1	4	2	14	10	18	10
21	2	1	8	9	0	9	4	11	9	10
22	2	3	0	6	1	9	11	15	4	4
23	1	1	0	8	0	9	2	2	15	2
24	4	8	7	5	8	5	17	7	11	9
25	2	2	7	1	0	2	8	16	4	15
26	1	9	2	6	9	1	14	12	7	9
27	4	6	0	1	1	3	7	19	18	15
28	2	9	7	1	2	0	4	6	16	9
29	4	5	2	7	1	3	13	15	5	15
30	2	8	0	1	1	4	19	11	17	4
31	3	9	5	0	0	1	16	12	11	10
32	2	5	3	5	1	0	13	11	10	8
33	0	8	1	5	1	0	11	8	15	8
34	4	8	4	1	5	2	17	10	7	15
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39	4	0	2	5	5	8	8	10	10	10
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69	4	9	7	2	0	8	17	5	15	7
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1	10	11	10	15	15	10	15	10	3	4
2	12	4	6	27	26	13	10	11	4	9
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70	15	12	15	15	35	16	15	15	23	16

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1	7	35	21	5	5	5	5	10	11	12
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69	19	27	24	5	18	10	5	9	16	60
70	29	65	94	8	5	10	5	17	19	67

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Abacus Mental Arithmetic Rudiments Answers (115-li)

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43	24	30	69	34	57	19	17	34	63	34	35	5	5
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65	63	40	19	15	24	57	65	39	60	59	44	12	12
66	36	64	72	61	23	67	70	65	34	33	19	16	16
67	21	70	91	69	20	55	38	55	26	32	24	12	2
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69	70	27	88	34	23	40	11	69	61	53	20	20	9
70	26	31	39	29	24	20	26	5	11	54	60	6	14

Name of student:

2 DIGITS AND MORE - USING BOTH HAND SYSTEM

<p>① 99 <u>+ 1</u> /</p> <p>Note: 1. 99: Use both hands to stir simultaneously. 2. +1: Right hand minus 9. Then, move right hand to minus 90 and left hand to add 100 simultaneously. 3. Answer is 100.</p>	<p>② 88 <u>+22</u></p> <p>Note: 1. 88: Use both hands to stir simultaneously. 2. +20: Right hand to minus 80 and left hand to add 100 simultaneously. +2: Right hand to minus 8 and left hand to plus 10 simultaneously. 3. Answer is 110.</p>																				
<p>③ 169 <u>+947</u></p> <p>Note: 1. 160 to use both hands to stir simultaneously, then 9 using right hand. 2. +900: Right hand to minus 100 and left hand to add 1,000 simultaneously. +40: Right hand to minus 60 and left hand to add 100 simultaneously. +7: Right hand to minus 3 and left hand to add 10 simultaneously. 3. Answer is 1,116</p>	<p>④ 81 <u>-29</u></p> <p>Note: 1. 81: Use both hands to stir simultaneously. 2. -20: left hand to push down 20. -9: left hand to minus 10 and right hand to add 1 simultaneously. 3. Answer is 52.</p>																				
<p>⑤ 100 <u>- 1</u></p> <p>Note: 1. 100: Left hand to stir. 2. -1: Left hand to minus 100 and right hand to add 90 simultaneously, then right hand again add 9. 3. Answer is 99.</p>	<p>⑥ 355 <u>- 88</u></p> <p>Note: 1. 350 to use both hands to stir simultaneously, then 5 using right hand. 2. -80: Left hand to minus 100 and right hand to add 20 simultaneously. -8: Left hand to minus 10 and right hand to add 2 simultaneously. 3. Answer is 267.</p>																				
<p>⑦ 2 steps becoming 1 step</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tbody> <tr><td style="padding: 0 20px;">$9+1$</td><td>$10-1$</td></tr> <tr><td>$8+2$</td><td>$20-8$</td></tr> <tr><td>$7+3$</td><td>$30-9$</td></tr> <tr><td>$4+1$</td><td>$5-1$</td></tr> <tr><td>$4+4$</td><td>$5-2$</td></tr> </tbody> </table>	$9+1$	$10-1$	$8+2$	$20-8$	$7+3$	$30-9$	$4+1$	$5-1$	$4+4$	$5-2$	<p>⑧ 3 steps becoming 1 step</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tbody> <tr><td style="padding: 0 20px;">$6+6$</td><td>$50-5$</td></tr> <tr><td>$7+6$</td><td>$42-6$</td></tr> <tr><td>$45+5$</td><td>$63-7$</td></tr> <tr><td>$35+7$</td><td>$56-7$</td></tr> <tr><td>$49+7$</td><td>$64-8$</td></tr> </tbody> </table>	$6+6$	$50-5$	$7+6$	$42-6$	$45+5$	$63-7$	$35+7$	$56-7$	$49+7$	$64-8$
$9+1$	$10-1$																				
$8+2$	$20-8$																				
$7+3$	$30-9$																				
$4+1$	$5-1$																				
$4+4$	$5-2$																				
$6+6$	$50-5$																				
$7+6$	$42-6$																				
$45+5$	$63-7$																				
$35+7$	$56-7$																				
$49+7$	$64-8$																				
<p>⑨ 4 steps becoming 1 step</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tbody> <tr><td style="padding: 0 20px;">$46+8$</td><td>$54-6$</td></tr> <tr><td>$47+7$</td><td>$53-8$</td></tr> <tr><td>$48+6$</td><td>$52-7$</td></tr> <tr><td>$45+9$</td><td>$54-9$</td></tr> <tr><td>$45+6$</td><td>$54-8$</td></tr> </tbody> </table>	$46+8$	$54-6$	$47+7$	$53-8$	$48+6$	$52-7$	$45+9$	$54-9$	$45+6$	$54-8$	<p>⑩ Adding Digit/Subtracting Digit</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tbody> <tr><td style="padding: 0 20px;">$95+6$</td><td>$101-6$</td></tr> <tr><td>$96+7$</td><td>$102-7$</td></tr> <tr><td>$97+7$</td><td>$103-7$</td></tr> <tr><td>$98+6$</td><td>$104-8$</td></tr> <tr><td>$94+6$</td><td>$105-9$</td></tr> </tbody> </table>	$95+6$	$101-6$	$96+7$	$102-7$	$97+7$	$103-7$	$98+6$	$104-8$	$94+6$	$105-9$
$46+8$	$54-6$																				
$47+7$	$53-8$																				
$48+6$	$52-7$																				
$45+9$	$54-9$																				
$45+6$	$54-8$																				
$95+6$	$101-6$																				
$96+7$	$102-7$																				
$97+7$	$103-7$																				
$98+6$	$104-8$																				
$94+6$	$105-9$																				