Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
56	8
28	4
49	7
	5
42	6

2)

Input	Output
9	63
10	70
3	21
8	56
	14

3)

Input	Output
8	24
10	26
	21
2	18
4	20

4)

Input	Output
5	
3	23
9	29
4	24
8	28

5)

Input	Output
8	32
10	
7	28
5	20
2	8

6)

Input	Output
9	3
11	5
15	9
14	8
16	

7)

In	12	9	5	13
Out	9	6	2	10

8)

In	5	2	6	9
Out	45	18	54	81

9)

In	56	64	48	32
Out	7	8		4

10)

In	9		8	7
Out	12	6	11	10

11)

In	18	60	24	12
Out	3	10	4	2

12)

In	9	7	2	5
Out	45		10	25

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
56	8
28	4
49	7
35	5
42	6

Rule: Div by 7

2)

Input	Output
9	63
10	70
3	21
8	56
2	14

Rule: Mult by 7

3)

Input	Output
8	24
10	26
5	21
2	18
4	20

Rule: Add 16

4)

Input	Output
5	25
3	23
9	29
4	24
8	28

Rule: Add 20

5)

Input	Output
8	32
10	40
7	28
5	20
2	8

Rule: Mult by 4

6)

Input	Output
9	3
11	5
15	9
14	8
16	10

Rule: Sub 6

7)

In	12	9	5	13
Out	9	6	2	10

Rule: Sub 3

8)

In	5	2	6	9
Out	45	18	54	81

Rule: Mult by 9

9)

In	56	64	48	32
Out	7	8	6	4

Rule: Div by 8

10)

In	9	3	8	7
Out	12	6	11	10

Rule: Add 3

11)

In	18	60	24	12
Out	3	10	4	2

Rule: Div by 6

12)

In	9	7	2	5
Out	45	35	10	25

Rule: Mult by 5

Answers

1. 35
2. 2
3. 5
4. 25
5. 40
6. 10
7. 3
8. 7
9. 6
10. 3
11. 54
12. 35

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
14	2
56	8
49	7
63	9
	6

2)

Input	Output
2	7
3	8
5	10
9	14
	15

3)

Input	Output
3	15
4	20
9	
5	25
6	30

4)

Input	Output
13	6
14	7
	9
15	8
12	5

5)

Input	Output
11	6
8	
9	4
13	8
14	9

6)

Input	Output
2	6
5	15
3	9
7	21
	27

7)

In	4		3	7
Out	8	12	7	11

8)

In	2	10	5	3
Out	6	14	9	7

9)

In	24	40	80	
Out	3	5	10	6

10)

In	23	24	21	17
Out	9	10	7	3

11)

In	60	30	40	50
Out		3	4	5

12)

In	9	7	5	11
Out	8	6	4	10

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
14	2
56	8
49	7
63	9
42	6

Rule: Div by 7

2)

Input	Output
2	7
3	8
5	10
9	14
10	15

Rule: Add 5

3)

Input	Output
3	15
4	20
9	45
5	25
6	30

Rule: Mult by 5

4)

Input	Output
13	6
14	7
16	9
15	8
12	5

Rule: Sub 7

5)

Input	Output
11	6
8	3
9	4
13	8
14	9

Rule: Sub 5

6)

Input	Output
2	6
5	15
3	9
7	21
9	27

Rule: Mult by 3

7)

In	4	8	3	7
Out	8	12	7	11

Rule: Add 4

8)

In	2	10	5	3
Out	6	14	9	7

Rule: Add 4

9)

In	24	40	80	48
Out	3	5	10	6

Rule: Div by 8

10)

In	23	24	21	17
Out	9	10	7	3

Rule: Sub 14

11)

In	60	30	40	50
Out	6	3	4	5

Rule: Div by 10

12)

In	9	7	5	11
Out	8	6	4	10

Rule: Sub 1

Answers

1. 42
2. 10
3. 45
4. 16
5. 3
6. 9
7. 8
8. 7
9. 48
10. 2
11. 6
12. 3

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	12
9	36
5	20
	40
7	28

2)

Input	Output
8	13
4	9
9	
7	12
5	10

3)

Input	Output
7	21
	27
4	12
2	6
5	15

4)

Input	Output
29	10
25	6
	9
21	2
26	7

5)

Input	Output
20	4
	9
25	5
40	8
50	10

6)

Input	Output
36	4
54	6
	10
45	5
72	8

7)

In	16		20	12
Out	8	5	10	6

8)

In	5	8	2	7
Out	50		20	70

9)

In		9	10	8
Out	8	15	16	14

10)

In	5	10	11	8
Out	4	9	10	7

11)

In	10	8		9
Out	30	24	9	27

12)

In	22	20	19	17
Out	8	6	5	3

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	12
9	36
5	20
10	40
7	28

Rule: Mult by 4

2)

Input	Output
8	13
4	9
9	14
7	12
5	10

Rule: Add 5

3)

Input	Output
7	21
9	27
4	12
2	6
5	15

Rule: Mult by 3

4)

Input	Output
29	10
25	6
28	9
21	2
26	7

Rule: Sub 19

5)

Input	Output
20	4
45	9
25	5
40	8
50	10

Rule: Div by 5

6)

Input	Output
36	4
54	6
90	10
45	5
72	8

Rule: Div by 9

7)

In	16	10	20	12
Out	8	5	10	6

Rule: Div by 2

8)

In	5	8	2	7
Out	50	80	20	70

Rule: Mult by 10

9)

In	2	9	10	8
Out	8	15	16	14

Rule: Add 6

10)

In	5	10	11	8
Out	4	9	10	7

Rule: Sub 1

11)

In	10	8	3	9
Out	30	24	9	27

Rule: Mult by 3

12)

In	22	20	19	17
Out	8	6	5	3

Rule: Sub 14

Answers

1. 10
2. 14
3. 9
4. 28
5. 45
6. 90
7. 10
8. 80
9. 2
10. 3
11. 3
12. 10

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
18	4
21	7
22	
19	5
20	6

2)

Input	Output
3	10
5	12
6	13
9	16
2	

3)

Input	Output
10	14
4	
3	7
9	13
7	11

4)

Input	Output
11	8
5	
6	3
12	9
9	6

5)

Input	Output
20	10
16	8
4	2
18	9
14	

6)

Input	Output
7	28
8	32
3	12
10	40
	24

7)

In	19		16	13
Out	10	9	7	4

8)

In	2	3	8	
Out	12	18	48	54

9)

In	15	21	27	
Out	5	7	9	8

10)

In	8	3	5	6
Out		22	24	25

11)

In	4	6	10	2
Out	32	48		16

12)

In	23	27	25	26
Out	3	7		6

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
18	4
21	7
22	8
19	5
20	6

Rule: Sub 14

2)

Input	Output
3	10
5	12
6	13
9	16
2	9

Rule: Add 7

3)

Input	Output
10	14
4	8
3	7
9	13
7	11

Rule: Add 4

4)

Input	Output
11	8
5	2
6	3
12	9
9	6

Rule: Sub 3

5)

Input	Output
20	10
16	8
4	2
18	9
14	7

Rule: Div by 2

6)

Input	Output
7	28
8	32
3	12
10	40
6	24

Rule: Mult by 4

7)

In	19	18	16	13
Out	10	9	7	4

Rule: Sub 9

8)

In	2	3	8	9
Out	12	18	48	54

Rule: Mult by 6

9)

In	15	21	27	24
Out	5	7	9	8

Rule: Div by 3

10)

In	8	3	5	6
Out	27	22	24	25

Rule: Add 19

11)

In	4	6	10	2
Out	32	48	80	16

Rule: Mult by 8

12)

In	23	27	25	26
Out	3	7	5	6

Rule: Sub 20

Answers

1. 8
2. 9
3. 8
4. 2
5. 7
6. 6
7. 18
8. 9
9. 24
10. 27
11. 80
12. 5

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
36	6
48	8
24	
30	5
54	9

2)

Input	Output
8	
6	48
7	56
2	16
10	80

3)

Input	Output
8	56
5	35
9	63
6	42
	21

4)

Input	Output
20	3
24	7
19	2
23	
26	9

5)

Input	Output
14	8
	7
16	10
15	9
8	2

6)

Input	Output
28	9
21	2
	10
22	3
27	8

7)

In	10	7	4	6
Out	17	14		13

8)

In	20	4		16
Out	10	2	6	8

9)

In	23	21		20
Out	10	8	6	7

10)

In	6		8	5
Out	36	12	48	30

11)

In	45	30	20	10
Out	9	6	4	

12)

In	6	10	8	9
Out		24	22	23

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
36	6
48	8
24	4
30	5
54	9

Rule: Div by 6

2)

Input	Output
8	64
6	48
7	56
2	16
10	80

Rule: Mult by 8

3)

Input	Output
8	56
5	35
9	63
6	42
3	21

Rule: Mult by 7

4)

Input	Output
20	3
24	7
19	2
23	6
26	9

Rule: Sub 17

5)

Input	Output
14	8
13	7
16	10
15	9
8	2

Rule: Sub 6

6)

Input	Output
28	9
21	2
29	10
22	3
27	8

Rule: Sub 19

7)

In	10	7	4	6
Out	17	14	11	13

Rule: Add 7

8)

In	20	4	12	16
Out	10	2	6	8

Rule: Div by 2

9)

In	23	21	19	20
Out	10	8	6	7

Rule: Sub 13

10)

In	6	2	8	5
Out	36	12	48	30

Rule: Mult by 6

11)

In	45	30	20	10
Out	9	6	4	2

Rule: Div by 5

12)

In	6	10	8	9
Out	20	24	22	23

Rule: Add 14

Answers

1. 4
2. 64
3. 3
4. 6
5. 13
6. 29
7. 11
8. 12
9. 19
10. 2
11. 2
12. 20

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	23
6	
10	30
5	25
9	29

2)

Input	Output
30	5
48	8
18	3
	10
54	9

3)

Input	Output
30	3
20	
70	7
90	9
60	6

4)

Input	Output
	17
8	15
5	12
3	10
2	9

5)

Input	Output
64	8
80	
56	7
40	5
48	6

6)

Input	Output
10	90
	36
2	18
6	54
7	63

7)

In	8	9	7	6
Out	27	28	26	

8)

In	18	24	23	19
Out	2	8	7	3

9)

In		2	10	4
Out	18	6	30	12

10)

In	8	9	10	5
Out	7	8		4

11)

In	40	45	50	10
Out	8		10	2

12)

In	8	10	7	6
Out	32		28	24

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	23
6	26
10	30
5	25
9	29

Rule: Add 20

2)

Input	Output
30	5
48	8
18	3
60	10
54	9

Rule: Div by 6

3)

Input	Output
30	3
20	2
70	7
90	9
60	6

Rule: Div by 10

4)

Input	Output
10	17
8	15
5	12
3	10
2	9

Rule: Add 7

5)

Input	Output
64	8
80	10
56	7
40	5
48	6

Rule: Div by 8

6)

Input	Output
10	90
4	36
2	18
6	54
7	63

Rule: Mult by 9

7)

In	8	9	7	6
Out	27	28	26	25

Rule: Add 19

8)

In	18	24	23	19
Out	2	8	7	3

Rule: Sub 16

9)

In	6	2	10	4
Out	18	6	30	12

Rule: Mult by 3

10)

In	8	9	10	5
Out	7	8	9	4

Rule: Sub 1

11)

In	40	45	50	10
Out	8	9	10	2

Rule: Div by 5

12)

In	8	10	7	6
Out	32	40	28	24

Rule: Mult by 4

Answers

1. 26
2. 60
3. 2
4. 10
5. 10
6. 4
7. 25
8. 22
9. 6
10. 9
11. 9
12. 40

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
5	45
7	63
2	
9	81
4	36

2)

Input	Output
6	3
10	7
11	8
12	9
8	

3)

Input	Output
	3
72	9
48	6
16	2
80	10

4)

Input	Output
8	48
3	18
7	42
	36
2	12

5)

Input	Output
5	10
	8
9	18
10	20
2	4

6)

Input	Output
5	14
3	12
6	15
4	
2	11

7)

In	16	10	18	
Out	8	2	10	9

8)

In	6		10	4
Out	42	21	70	28

9)

In	11	8	7	4
Out	9		5	2

10)

In		6	2	8
Out	21	17	13	19

11)

In	8		2	3
Out	16	13	10	11

12)

In	50	30	20	25
Out	10	6		5

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
5	45
7	63
2	18
9	81
4	36

Rule: Mult by 9

2)

Input	Output
6	3
10	7
11	8
12	9
8	5

Rule: Sub 3

3)

Input	Output
24	3
72	9
48	6
16	2
80	10

Rule: Div by 8

4)

Input	Output
8	48
3	18
7	42
6	36
2	12

Rule: Mult by 6

5)

Input	Output
5	10
4	8
9	18
10	20
2	4

Rule: Mult by 2

6)

Input	Output
5	14
3	12
6	15
4	13
2	11

Rule: Add 9

7)

In	16	10	18	17
Out	8	2	10	9

Rule: Sub 8

8)

In	6	3	10	4
Out	42	21	70	28

Rule: Mult by 7

9)

In	11	8	7	4
Out	9	6	5	2

Rule: Sub 2

10)

In	10	6	2	8
Out	21	17	13	19

Rule: Add 11

11)

In	8	5	2	3
Out	16	13	10	11

Rule: Add 8

12)

In	50	30	20	25
Out	10	6	4	5

Rule: Div by 5

Answers

1. 18
2. 5
3. 24
4. 6
5. 4
6. 13
7. 17
8. 3
9. 6
10. 10
11. 5
12. 4

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
6	
13	9
7	3
10	6
9	5

2)

Input	Output
10	29
6	25
4	23
8	27
	28

3)

Input	Output
9	11
5	7
7	9
	6
2	4

4)

Input	Output
3	19
10	26
5	
9	25
2	18

5)

Input	Output
5	22
6	23
4	21
8	25
3	

6)

Input	Output
16	
13	6
14	7
10	3
15	8

7)

In	42	60	48	30
Out	7		8	5

8)

In		4	8	7
Out	42	28	56	49

9)

In		3	2	7
Out	25	15	10	35

10)

In	25	22		23
Out	9	6	3	7

11)

In	20	18	8	10
Out	10	9	4	

12)

In	3	7		4
Out	9	21	15	12

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
6	2
13	9
7	3
10	6
9	5

Rule: Sub 4

2)

Input	Output
10	29
6	25
4	23
8	27
9	28

Rule: Add 19

3)

Input	Output
9	11
5	7
7	9
4	6
2	4

Rule: Add 2

4)

Input	Output
3	19
10	26
5	21
9	25
2	18

Rule: Add 16

5)

Input	Output
5	22
6	23
4	21
8	25
3	20

Rule: Add 17

6)

Input	Output
16	9
13	6
14	7
10	3
15	8

Rule: Sub 7

7)

In	42	60	48	30
Out	7	10	8	5

Rule: Div by 6

8)

In	6	4	8	7
Out	42	28	56	49

Rule: Mult by 7

9)

In	5	3	2	7
Out	25	15	10	35

Rule: Mult by 5

10)

In	25	22	19	23
Out	9	6	3	7

Rule: Sub 16

11)

In	20	18	8	10
Out	10	9	4	5

Rule: Div by 2

12)

In	3	7	5	4
Out	9	21	15	12

Rule: Mult by 3

Answers

1. 2
2. 9
3. 4
4. 21
5. 20
6. 9
7. 10
8. 6
9. 5
10. 19
11. 5
12. 5

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
10	14
5	9
	11
4	8
2	6

2)

Input	Output
32	4
16	2
	10
72	9
40	5

3)

Input	Output
70	7
90	
40	4
60	6
80	8

4)

Input	Output
80	
56	7
72	9
48	6
40	5

5)

Input	Output
15	4
13	2
21	
18	7
16	5

6)

Input	Output
12	7
9	4
14	9
10	
7	2

7)

In	63	27	45	36
Out	7	3	5	

8)

In	3	7	5	4
Out	12	16		13

9)

In	9	7	10	5
Out		35	50	25

10)

In	6	4	7	8
Out	26		27	28

11)

In	17	19	13	18
Out	6	8		7

12)

In	7	3	6	4
Out	10	6	9	7

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
10	14
5	9
7	11
4	8
2	6

Rule: Add 4

2)

Input	Output
32	4
16	2
80	10
72	9
40	5

Rule: Div by 8

3)

Input	Output
70	7
90	9
40	4
60	6
80	8

Rule: Div by 10

4)

Input	Output
80	10
56	7
72	9
48	6
40	5

Rule: Div by 8

5)

Input	Output
15	4
13	2
21	10
18	7
16	5

Rule: Sub 11

6)

Input	Output
12	7
9	4
14	9
10	5
7	2

Rule: Sub 5

7)

In	63	27	45	36
Out	7	3	5	4

Rule: Div by 9

8)

In	3	7	5	4
Out	12	16	14	13

Rule: Add 9

9)

In	9	7	10	5
Out	45	35	50	25

Rule: Mult by 5

10)

In	6	4	7	8
Out	26	24	27	28

Rule: Add 20

11)

In	17	19	13	18
Out	6	8	2	7

Rule: Sub 11

12)

In	7	3	6	4
Out	10	6	9	7

Rule: Add 3

Answers

1. 7
2. 80
3. 9
4. 10
5. 10
6. 5
7. 4
8. 14
9. 45
10. 24
11. 2
12. 8

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name:

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
	10
9	16
4	11
2	9
6	13

2)

Input	Output
22	5
21	4
25	8
19	2
	3

3)

Input	Output
19	2
21	4
20	3
25	8
	7

4)

Input	Output
3	30
5	
10	100
6	60
2	20

5)

Input	Output
10	
5	15
6	16
3	13
2	12

6)

Input	Output
5	50
10	100
2	20
	90
6	60

7)

In	17	24	21	23
Out	2	9	6	

8)

In	2	6	5	7
Out	4	12		14

9)

In	6	27	18	21
Out	2	9	6	7

10)

In	32	28	12	36
Out	8	7	3	9

11)

In	21	18	15	27
Out	7	6		9

12)

In	5	10	3	4
Out	24	29		23

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Function Machines - Filling in Missing Digit Name: **Answer Key**

Determine the number that correctly fills in the blank in the function machine.

1)

Input	Output
3	10
9	16
4	11
2	9
6	13

Rule: Add 7

2)

Input	Output
22	5
21	4
25	8
19	2
20	3

Rule: Sub 17

3)

Input	Output
19	2
21	4
20	3
25	8
24	7

Rule: Sub 17

4)

Input	Output
3	30
5	50
10	100
6	60
2	20

Rule: Mult by 10

5)

Input	Output
10	20
5	15
6	16
3	13
2	12

Rule: Add 10

6)

Input	Output
5	50
10	100
2	20
9	90
6	60

Rule: Mult by 10

7)

In	17	24	21	23
Out	2	9	6	8

Rule: Sub 15

8)

In	2	6	5	7
Out	4	12	10	14

Rule: Mult by 2

9)

In	6	27	18	21
Out	2	9	6	7

Rule: Div by 3

10)

In	32	28	12	36
Out	8	7	3	9

Rule: Div by 4

11)

In	21	18	15	27
Out	7	6	5	9

Rule: Div by 3

12)

In	5	10	3	4
Out	24	29	22	23

Rule: Add 19

Answers

1. 3
2. 20
3. 24
4. 50
5. 20
6. 9
7. 8
8. 10
9. 24
10. 10
11. 5
12. 22

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								