

Function Machines!

Addition and Subtraction

1.

Input	Output
10	17
0	7
7	
2	

2.

Input	Output
11	17
5	11
10	
12	

3.

Input	Output
6	14
12	20
7	
3	

4.

Input	Output
9	19
4	14
5	
0	

5.

Input	Output
5	7
0	2
1	
2	

6.

Input	Output
11	7
8	4
4	
10	

7.

Input	Output
12	3
9	0
10	
11	

8.

Input	Output
9	1
8	0
10	
12	

9.

Input	Output
1	3
9	11
7	
8	

10.

Input	Output
7	18
1	12
11	
12	

11.

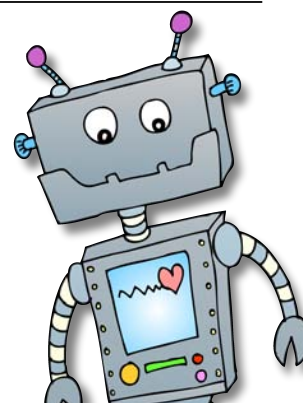
Input	Output
0	10
3	13
1	
5	

12.

Input	Output
10	4
8	2
9	
7	

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Addition and Subtraction

1.

Input	Output
10	17
0	7
7	14
2	9

Add 7

2.

Input	Output
11	17
5	11
10	16
12	18

Add 6

3.

Input	Output
6	14
12	20
7	15
3	11

Add 8

4.

Input	Output
9	19
4	14
5	15
0	10

Add 10

5.

Input	Output
5	7
0	2
1	3
2	4

Add 2

6.

Input	Output
11	7
8	4
4	0
10	6

Subtract 4

7.

Input	Output
12	3
9	0
10	1
11	2

Subtract 9

8.

Input	Output
9	1
8	0
10	2
12	4

Subtract 8

9.

Input	Output
1	3
9	11
7	9
8	10

Add 2

10.

Input	Output
7	18
1	12
11	22
12	23

Add 11

11.

Input	Output
0	10
3	13
1	11
5	15

Add 10

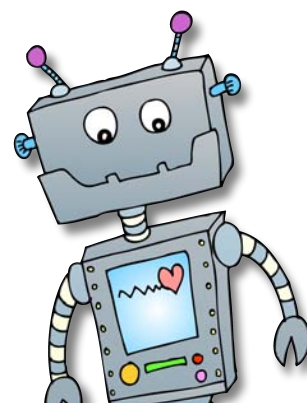
12.

Input	Output
10	4
8	2
9	3
7	1

Subtract 6

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Addition and Subtraction

1.

Input	Output
4	26
22	44
3	
5	

2.

Input	Output
19	1
23	5
25	
22	

3.

Input	Output
18	36
24	42
0	
15	

4.

Input	Output
8	22
19	33
13	
0	

5.

Input	Output
22	12
19	9
15	
12	

6.

Input	Output
24	36
11	23
21	
12	

7.

Input	Output
22	39
8	25
25	
17	

8.

Input	Output
4	2
13	11
20	
8	

9.

Input	Output
20	16
17	13
24	
11	

10.

Input	Output
14	27
17	30
0	
18	

11.

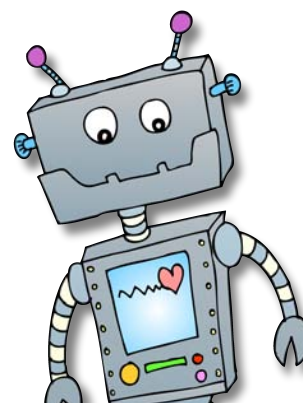
Input	Output
17	0
18	1
21	
22	

12.

Input	Output
17	19
19	21
20	
21	

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Addition and Subtraction

1.

Input	Output
4	26
22	44
3	25
5	27

Add 22

2.

Input	Output
19	1
23	5
25	7
22	4

Subtract 18

3.

Input	Output
18	36
24	42
0	18
15	33

Add 18

4.

Input	Output
8	22
19	33
13	27
0	14

Add 14

5.

Input	Output
22	12
19	9
15	5
12	2

Subtract 10

6.

Input	Output
24	36
11	23
21	33
12	24

Add 12

7.

Input	Output
22	39
8	25
25	42
17	34

Add 17

8.

Input	Output
4	2
13	11
20	18
8	6

Subtract 2

9.

Input	Output
20	16
17	13
24	20
11	7

Subtract 4

10.

Input	Output
14	27
17	30
0	13
18	31

Add 13

11.

Input	Output
17	0
18	1
21	4
22	5

Subtract 17

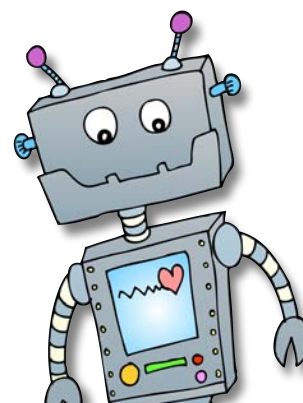
12.

Input	Output
17	19
19	21
20	22
21	23

Add 2

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Addition and Subtraction

1.

Input	Output
74	167
45	138
27	
43	

2.

Input	Output
31	10
95	74
21	
44	

3.

Input	Output
42	27
26	11
57	
28	

4.

Input	Output
15	98
100	183
27	
36	

5.

Input	Output
70	116
74	120
6	
81	

6.

Input	Output
78	11
92	25
91	
86	

7.

Input	Output
82	106
46	70
73	
75	

8.

Input	Output
12	20
60	68
45	
73	

9.

Input	Output
92	15
97	20
77	
91	

10.

Input	Output
94	24
85	15
74	
80	

11.

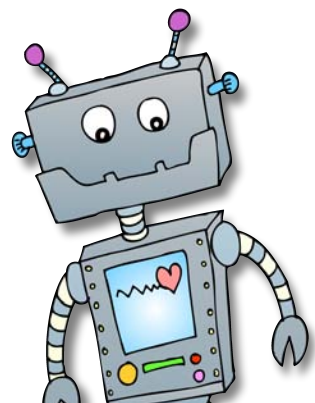
Input	Output
49	146
84	181
8	
29	

12.

Input	Output
40	47
57	64
55	
98	

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Addition and Subtraction

1.

Input	Output
74	167
45	138
27	120
43	136

Add 93

2.

Input	Output
31	10
95	74
21	0
44	23

Subtract 21

3.

Input	Output
42	27
26	11
57	42
28	13

Subtract 15

4.

Input	Output
15	98
100	183
27	110
36	119

Add 83

5.

Input	Output
70	116
74	120
6	52
81	127

Add 46

6.

Input	Output
78	11
92	25
91	24
86	19

Subtract 67

7.

Input	Output
82	106
46	70
73	97
75	99

Add 24

8.

Input	Output
12	20
60	68
45	53
73	81

Add 8

9.

Input	Output
92	15
97	20
77	0
91	14

Subtract 77

10.

Input	Output
94	24
85	15
74	4
80	10

Subtract 70

11.

Input	Output
49	146
84	181
8	105
29	126

Add 97

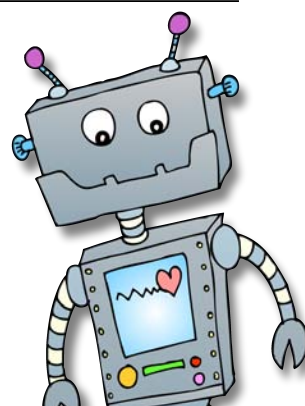
12.

Input	Output
40	47
57	64
55	62
98	105

Add 7

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Addition and Subtraction

1.

Input	Output
769	187
597	15
696	
659	

2.

Input	Output
683	323
791	431
962	
639	

3.

Input	Output
396	1,363
358	1,325
545	
473	

4.

Input	Output
304	426
471	593
125	
976	

5.

Input	Output
690	1,607
622	1,539
156	
886	

6.

Input	Output
849	173
957	281
964	
991	

7.

Input	Output
887	512
807	432
765	
401	

8.

Input	Output
900	741
248	89
611	
694	

9.

Input	Output
80	331
833	1,084
608	
684	

10.

Input	Output
962	96
867	1
926	
963	

11.

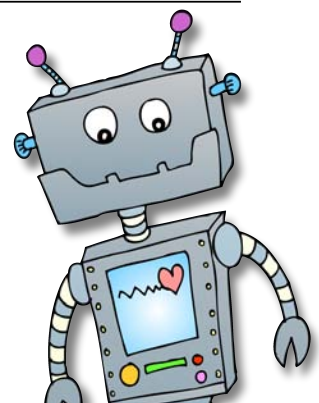
Input	Output
35	999
157	1,121
104	
452	

12.

Input	Output
163	838
65	740
91	
381	

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Addition and Subtraction

1.

Input	Output
769	187
597	15
696	114
659	77

Subtract 582

2.

Input	Output
683	323
791	431
962	602
639	279

Subtract 360

3.

Input	Output
396	1,363
358	1,325
545	1,512
473	1,440

Add 967

4.

Input	Output
304	426
471	593
125	247
976	1,098

Add 122

5.

Input	Output
690	1,607
622	1,539
156	1,073
886	1,803

Add 917

6.

Input	Output
849	173
957	281
964	288
991	315

Subtract 676

7.

Input	Output
887	512
807	432
765	390
401	26

Subtract 375

8.

Input	Output
900	741
248	89
611	452
694	535

Subtract 159

9.

Input	Output
80	331
833	1,084
608	859
684	935

Add 251

10.

Input	Output
962	96
867	1
926	60
963	97

Subtract 866

11.

Input	Output
35	999
157	1,121
104	1,068
452	1,416

Add 964

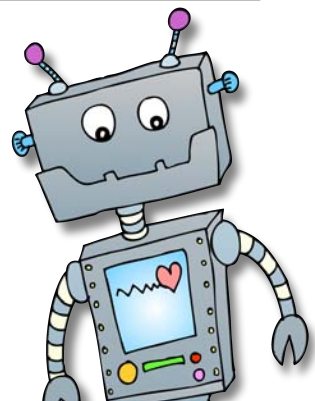
12.

Input	Output
163	838
65	740
91	766
381	1,056

Add 675

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Multiplication and Division

1.

Input	Output
7	21
9	27
2	
1	

2.

Input	Output
10	1
20	2
40	
0	

3.

Input	Output
56	7
40	5
0	
72	

4.

Input	Output
16	2
24	3
72	
64	

5.

Input	Output
6	60
9	90
5	
1	

6.

Input	Output
63	9
0	0
21	
35	

7.

Input	Output
0	0
7	56
3	
8	

8.

Input	Output
25	5
45	9
20	
50	

9.

Input	Output
10	2
40	8
0	
30	

10.

Input	Output
9	81
6	54
2	
5	

11.

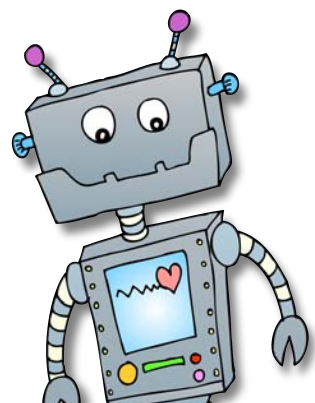
Input	Output
9	18
3	6
6	
10	

12.

Input	Output
4	16
3	12
2	
10	

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Multiplication and Division

1.

Input	Output
7	21
9	27
2	6
1	3

Multiply by 3

2.

Input	Output
10	1
20	2
40	4
0	0

Divide by 10

3.

Input	Output
56	7
40	5
0	0
72	9

Divide by 8

4.

Input	Output
16	2
24	3
72	9
64	8

Divide by 8

5.

Input	Output
6	60
9	90
5	50
1	10

Multiply by 10

6.

Input	Output
63	9
0	0
21	3
35	5

Divide by 7

7.

Input	Output
0	0
7	56
3	24
8	64

Multiply by 8

8.

Input	Output
25	5
45	9
20	4
50	10

Divide by 5

9.

Input	Output
10	2
40	8
0	0
30	6

Divide by 5

10.

Input	Output
9	81
6	54
2	18
5	45

Multiply by 9

11.

Input	Output
9	18
3	6
6	12
10	20

Multiply by 2

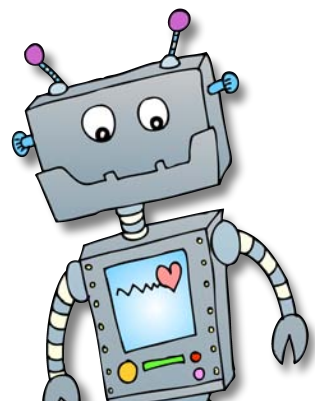
12.

Input	Output
4	16
3	12
2	8
10	40

Multiply by 4

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Multiplication and Division

1.

Input	Output
144	18
320	40
136	
264	

2.

Input	Output
21	168
1	8
3	
11	

3.

Input	Output
6	36
39	234
50	
22	

4.

Input	Output
18	36
37	74
5	
32	

5.

Input	Output
15	135
34	306
41	
12	

6.

Input	Output
175	35
85	17
145	
80	

7.

Input	Output
0	0
24	4
222	
198	

8.

Input	Output
228	38
270	45
144	
30	

9.

Input	Output
36	288
28	224
27	
18	

10.

Input	Output
60	30
80	40
26	
90	

11.

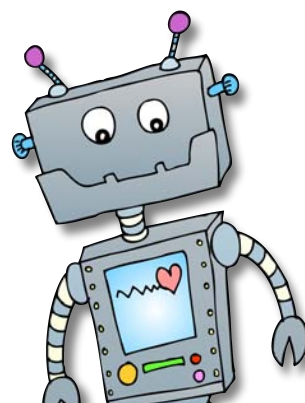
Input	Output
81	27
66	22
33	
147	

12.

Input	Output
32	320
3	30
5	
10	

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Multiplication and Division

1.

Input	Output
144	18
320	40
136	17
264	33

Divide by 8

2.

Input	Output
21	168
1	8
3	24
11	88

Multiply by 8

3.

Input	Output
6	36
39	234
50	300
22	132

Multiply by 6

4.

Input	Output
18	36
37	74
5	10
32	64

Multiply by 2

5.

Input	Output
15	135
34	306
41	369
12	108

Multiply by 9

6.

Input	Output
175	35
85	17
145	29
80	16

Divide by 5

7.

Input	Output
0	0
24	4
222	37
198	33

Divide by 6

8.

Input	Output
228	38
270	45
144	24
30	5

Divide by 6

9.

Input	Output
36	288
28	224
27	216
18	144

Multiply by 8

10.

Input	Output
60	30
80	40
26	13
90	45

Divide by 2

11.

Input	Output
81	27
66	22
33	11
147	49

Divide by 3

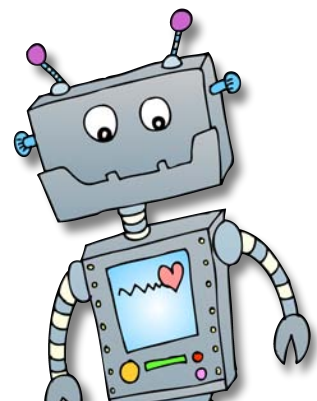
12.

Input	Output
32	320
3	30
5	50
10	100

Multiply by 10

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Multiplication and Division

1.

Input	Output
235	1,410
498	2,988
479	
695	

2.

Input	Output
959	9,590
507	5,070
428	
747	

3.

Input	Output
79	790
638	6,380
498	
431	

4.

Input	Output
9,840	984
80	8
9,040	
5,990	

5.

Input	Output
330	2,970
976	8,784
285	
773	

6.

Input	Output
2,152	269
656	82
6,840	
3,888	

7.

Input	Output
876	146
5,934	989
1,692	
4,380	

8.

Input	Output
1,872	936
1,412	706
742	
404	

9.

Input	Output
4,608	576
5,912	739
2,952	
1,064	

10.

Input	Output
1,278	639
1,272	636
554	
1,370	

11.

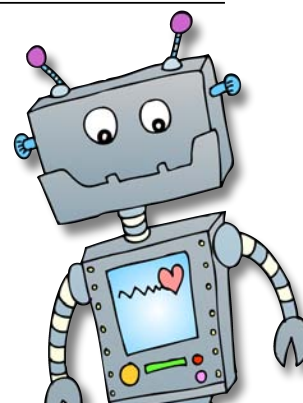
Input	Output
633	2,532
185	740
685	
711	

12.

Input	Output
141	423
593	1,779
958	
970	

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?



Function Machines!

Multiplication and Division

1.

Input	Output
235	1,410
498	2,988
479	2,874
695	4,170

Multiply by 6

2.

Input	Output
959	9,590
507	5,070
428	4,280
747	7,470

Multiply by 10

3.

Input	Output
79	790
638	6,380
498	4,980
431	4,310

Multiply by 10

4.

Input	Output
9,840	984
80	8
9,040	904
5,990	599

Divide by 10

5.

Input	Output
330	2,970
976	8,784
285	2,565
773	6,957

Multiply by 9

6.

Input	Output
2,152	269
656	82
6,840	855
3,888	486

Divide by 8

7.

Input	Output
876	146
5,934	989
1,692	282
4,380	730

Divide by 6

8.

Input	Output
1,872	936
1,412	706
742	371
404	202

Divide by 2

9.

Input	Output
4,608	576
5,912	739
2,952	369
1,064	133

Divide by 8

10.

Input	Output
1,278	639
1,272	636
554	277
1,370	685

Divide by 2

11.

Input	Output
633	2,532
185	740
685	2,740
711	2,844

Multiply by 4

12.

Input	Output
141	423
593	1,779
958	2,874
970	2,910

Multiply by 3

How does the input change in each table?
What is the mystery function?

Can you calculate the missing outputs too?

