

Input/Output Tables (A)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 12	Output
6		
2		
3		
12		
5		

	Rule	
Input	- 8	Output
20		
14		
10		
13		
17		

	Rule	
Input	+ 9	Output
4		
11		
12		
1		
8		

	Rule	
Input	- 7	Output
11		
17		
8		
18		
9		

	Rule	
Input	+ 1	Output
11		
2		
6		
9		
4		

	Rule	
Input	- 4	Output
14		
6		
13		
12		
10		

Input/Output Tables (A) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 12	Output
6		18
2		14
3		15
12		24
5		17

	Rule	
Input	- 8	Output
20		12
14		6
10		2
13		5
17		9

	Rule	
Input	+ 9	Output
4		13
11		20
12		21
1		10
8		17

	Rule	
Input	- 7	Output
11		4
17		10
8		1
18		11
9		2

	Rule	
Input	+ 1	Output
11		12
2		3
6		7
9		10
4		5

	Rule	
Input	- 4	Output
14		10
6		2
13		9
12		8
10		6

Input/Output Tables (B)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
5		
11		
12		
9		
2		

	Rule	
Input	- 1	Output
5		
11		
10		
8		
2		

	Rule	
Input	+ 12	Output
1		
2		
4		
3		
11		

	Rule	
Input	- 12	Output
21		
18		
20		
15		
24		

	Rule	
Input	+ 1	Output
9		
3		
10		
6		
12		

	Rule	
Input	- 4	Output
13		
11		
10		
8		
7		

Input/Output Tables (B) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
5		9
11		15
12		16
9		13
2		6

	Rule	
Input	- 1	Output
5		4
11		10
10		9
8		7
2		1

	Rule	
Input	+ 12	Output
1		13
2		14
4		16
3		15
11		23

	Rule	
Input	- 12	Output
21		9
18		6
20		8
15		3
24		12

	Rule	
Input	+ 1	Output
9		10
3		4
10		11
6		7
12		13

	Rule	
Input	- 4	Output
13		9
11		7
10		6
8		4
7		3

Input/Output Tables (C)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 3	Output
9		
12		
2		
3		
7		

	Rule	
Input	- 11	Output
19		
14		
22		
21		
16		

	Rule	
Input	+ 5	Output
10		
5		
4		
11		
3		

	Rule	
Input	- 1	Output
10		
8		
9		
4		
5		

	Rule	
Input	+ 9	Output
1		
3		
5		
9		
8		

	Rule	
Input	- 9	Output
11		
21		
10		
19		
18		

Input/Output Tables (C) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 3	Output
9		12
12		15
2		5
3		6
7		10

	Rule	
Input	- 11	Output
19		8
14		3
22		11
21		10
16		5

	Rule	
Input	+ 5	Output
10		15
5		10
4		9
11		16
3		8

	Rule	
Input	- 1	Output
10		9
8		7
9		8
4		3
5		4

	Rule	
Input	+ 9	Output
1		10
3		12
5		14
9		18
8		17

	Rule	
Input	- 9	Output
11		2
21		12
10		1
19		10
18		9

Input/Output Tables (D)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 12	Output
11		
10		
7		
9		
8		

	Rule	
Input	- 11	Output
19		
22		
23		
17		
13		

	Rule	
Input	+ 12	Output
6		
3		
2		
11		
4		

	Rule	
Input	- 7	Output
10		
12		
9		
14		
18		

	Rule	
Input	+ 10	Output
8		
11		
7		
4		
1		

	Rule	
Input	- 6	Output
10		
14		
12		
11		
8		

Input/Output Tables (D) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 12	Output
11		23
10		22
7		19
9		21
8		20

	Rule	
Input	- 11	Output
19		8
22		11
23		12
17		6
13		2

	Rule	
Input	+ 12	Output
6		18
3		15
2		14
11		23
4		16

	Rule	
Input	- 7	Output
10		3
12		5
9		2
14		7
18		11

	Rule	
Input	+ 10	Output
8		18
11		21
7		17
4		14
1		11

	Rule	
Input	- 6	Output
10		4
14		8
12		6
11		5
8		2

Input/Output Tables (E)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 5	Output
9		
5		
10		
12		
3		

	Rule	
Input	- 11	Output
16		
13		
17		
23		
15		

	Rule	
Input	+ 4	Output
8		
4		
1		
7		
12		

	Rule	
Input	- 3	Output
10		
15		
8		
14		
5		

	Rule	
Input	+ 11	Output
4		
8		
3		
5		
11		

	Rule	
Input	- 3	Output
11		
10		
9		
7		
15		

Input/Output Tables (E) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 5	Output
9		14
5		10
10		15
12		17
3		8

	Rule	
Input	- 11	Output
16		5
13		2
17		6
23		12
15		4

	Rule	
Input	+ 4	Output
8		12
4		8
1		5
7		11
12		16

	Rule	
Input	- 3	Output
10		7
15		12
8		5
14		11
5		2

	Rule	
Input	+ 11	Output
4		15
8		19
3		14
5		16
11		22

	Rule	
Input	- 3	Output
11		8
10		7
9		6
7		4
15		12

Input/Output Tables (F)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
3		
9		
2		
12		
1		

	Rule	
Input	- 8	Output
10		
15		
13		
14		
17		

	Rule	
Input	+ 11	Output
10		
3		
1		
5		
4		

	Rule	
Input	- 5	Output
9		
13		
11		
15		
14		

	Rule	
Input	+ 9	Output
1		
12		
4		
3		
2		

	Rule	
Input	- 3	Output
15		
12		
8		
9		
11		

Input/Output Tables (F) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
3		7
9		13
2		6
12		16
1		5

	Rule	
Input	- 8	Output
10		2
15		7
13		5
14		6
17		9

	Rule	
Input	+ 11	Output
10		21
3		14
1		12
5		16
4		15

	Rule	
Input	- 5	Output
9		4
13		8
11		6
15		10
14		9

	Rule	
Input	+ 9	Output
1		10
12		21
4		13
3		12
2		11

	Rule	
Input	- 3	Output
15		12
12		9
8		5
9		6
11		8

Input/Output Tables (G)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
10		
8		
11		
7		
4		

	Rule	
Input	- 6	Output
14		
17		
16		
13		
15		

	Rule	
Input	+ 6	Output
1		
10		
11		
12		
2		

	Rule	
Input	- 12	Output
19		
16		
15		
23		
24		

	Rule	
Input	+ 8	Output
10		
12		
2		
11		
3		

	Rule	
Input	- 7	Output
17		
14		
15		
9		
10		

Input/Output Tables (G) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
10		14
8		12
11		15
7		11
4		8

	Rule	
Input	- 6	Output
14		8
17		11
16		10
13		7
15		9

	Rule	
Input	+ 6	Output
1		7
10		16
11		17
12		18
2		8

	Rule	
Input	- 12	Output
19		7
16		4
15		3
23		11
24		12

	Rule	
Input	+ 8	Output
10		18
12		20
2		10
11		19
3		11

	Rule	
Input	- 7	Output
17		10
14		7
15		8
9		2
10		3

Input/Output Tables (H)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 3	Output
4		
10		
1		
12		
3		

	Rule	
Input	- 3	Output
5		
12		
4		
11		
15		

	Rule	
Input	+ 1	Output
1		
2		
5		
9		
3		

	Rule	
Input	- 3	Output
7		
9		
4		
10		
12		

	Rule	
Input	+ 10	Output
10		
5		
12		
1		
3		

	Rule	
Input	- 5	Output
15		
8		
6		
14		
12		

Input/Output Tables (H) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 3	Output
4		7
10		13
1		4
12		15
3		6

	Rule	
Input	- 3	Output
5		2
12		9
4		1
11		8
15		12

	Rule	
Input	+ 1	Output
1		2
2		3
5		6
9		10
3		4

	Rule	
Input	- 3	Output
7		4
9		6
4		1
10		7
12		9

	Rule	
Input	+ 10	Output
10		20
5		15
12		22
1		11
3		13

	Rule	
Input	- 5	Output
15		10
8		3
6		1
14		9
12		7

Input/Output Tables (I)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
8		
1		
10		
3		
2		

	Rule	
Input	- 10	Output
17		
15		
14		
20		
21		

	Rule	
Input	+ 6	Output
3		
10		
4		
12		
9		

	Rule	
Input	- 12	Output
14		
20		
22		
21		
23		

	Rule	
Input	+ 10	Output
9		
7		
4		
11		
2		

	Rule	
Input	- 2	Output
6		
14		
8		
7		
9		

Input/Output Tables (I) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 4	Output
8		12
1		5
10		14
3		7
2		6

	Rule	
Input	- 10	Output
17		7
15		5
14		4
20		10
21		11

	Rule	
Input	+ 6	Output
3		9
10		16
4		10
12		18
9		15

	Rule	
Input	- 12	Output
14		2
20		8
22		10
21		9
23		11

	Rule	
Input	+ 10	Output
9		19
7		17
4		14
11		21
2		12

	Rule	
Input	- 2	Output
6		4
14		12
8		6
7		5
9		7

Input/Output Tables (J)

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 11	Output
2		
6		
10		
3		
9		

	Rule	
Input	- 8	Output
16		
20		
9		
12		
18		

	Rule	
Input	+ 11	Output
3		
12		
1		
11		
7		

	Rule	
Input	- 11	Output
20		
18		
13		
12		
21		

	Rule	
Input	+ 2	Output
10		
2		
7		
5		
3		

	Rule	
Input	- 3	Output
12		
8		
5		
7		
14		

Input/Output Tables (J) Answers

Fill in the blanks. Use the middle column to show your work.

	Rule	
Input	+ 11	Output
2		13
6		17
10		21
3		14
9		20

	Rule	
Input	- 8	Output
16		8
20		12
9		1
12		4
18		10

	Rule	
Input	+ 11	Output
3		14
12		23
1		12
11		22
7		18

	Rule	
Input	- 11	Output
20		9
18		7
13		2
12		1
21		10

	Rule	
Input	+ 2	Output
10		12
2		4
7		9
5		7
3		5

	Rule	
Input	- 3	Output
12		9
8		5
5		2
7		4
14		11