



Practice: Guess More Rules

An In-Out table always has a rule to get from the In value (x) to the Out (y).
For each of the following tables:

- Look for a pattern in the table.
- Try to figure out what the rule is to get from x to y .
- Check to see whether the rule works for every case, and write in another pair of numbers that follows the rule.
- Write the rule in words.
- Write an equation for the rule.

Example

x	y
3	15
4	20
5	25
12	60

Fill in the table.

The rule in words:

Multiply x by five to get y

The equation:

$$y = 5x$$

Check your rule by reading it out loud. If you follow the rule, do the pairs of numbers work?

Table 1

x	y
7	28
8	32
9	36

Fill in the table.

The rule in words:

The equation:

Table 2

x	y
3	24
5	40
6	48

Fill in the table.
The rule in words:

The equation:

Table 3

x	y
4	9
5	10
6	11

Fill in the table.
The rule in words:

The equation:

Table 4

x	y
6	5
8	7
13	12

Fill in the table.
The rule in words:

The equation:

Table 5

x	y
2	1.0
5	2.5
8	4.0

Fill in the table.
The rule in words:

The equation:

Table 6

x	y
1	4
2	7
3	10
4	13

Fill in the table.
The rule in words:

The equation:

Table 7

x	y
3	22
4	29
11	78

Fill in the table.
The rule in words:

The equation:

The rules for the next three tables have a twist.

Table 8

x	y
1	1
3	9
7	49

Fill in the table.
The rule in words:

The equation:

Table 9

x	y
2	6
5	27
6	38
10	102

Fill in the table.
The rule in words:

The equation:

Table 10

x	y
1	19
2	18
6	14
7	13

Fill in the table.
The rule in words:

The equation:



Practice: Fill In the Values

Figure out the rule for the following tables and fill in the missing values.

Example

x	y
60	30
56	28
42	21
100	50
200	100

1.

x	y
1	7
2	9
3	11
4	
5	

2.

x	y
12	13
11	14
16	9
4	
	20

3.

x	y
1	2
2	5
3	8
10	
	98

4.

x	y
100	5
101	6
102	7
200	
	200

5.

x	y
2	
3	8
	15
10	99
12	

6.

x	y
5	20
10	95
12	139
15	
20	