

“What’s My Rule?”



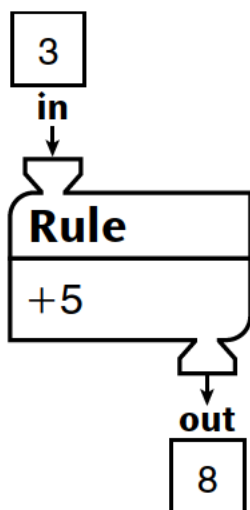
Family Note

Today your child learned about a kind of problem you may not have seen before. We call it “What’s My Rule?” Please ask your child to explain it to you.

Here is a little background information: Imagine a machine with a funnel at the top and a tube coming out of the bottom. The machine can be programmed so that if a number is dropped into the funnel, the machine does something to the number, and a new number comes out of the tube. For example, the machine could be programmed to add 5 to any number that is dropped in. If you put in 3, 8 would come out. If you put in 7, 12 would come out.

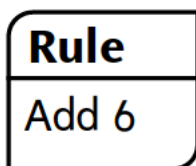
We call this device a *function machine*.

You can show the results of the rule “+5” in a table:



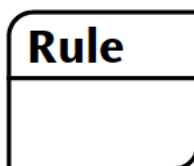
in	out
3	8
7	12
15	20

In a “What’s My Rule?” problem, some of the information is missing. To solve the problem, you have to find the missing information. The missing information could be the numbers that come out of a function machine, the numbers that are dropped in, or the rule for programming the machine. *For example:*



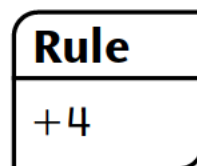
in	out
3	
5	
8	

Missing: out numbers



in	out
6	3
10	5
16	8

Missing: rule



in	out
	6
	16
	11

Missing: in numbers

Like Frames-and-Arrows problems, “What’s My Rule?” problems help children practice facts (and extended facts) in a problem-solving format.

Please return the **second page** of this Home Link to school tomorrow.



“What’s My Rule?” *continued*



Give the Family Note to someone at home. Show that person how you can complete “What’s My Rule?” tables. Show that person how you can find rules.

1. Fill in the table.

Rule	in	out
+9	1	10
	4	13
	6	
	8	
	5	

2. Find the rule.

Rule	in	out
	10	2
	12	4
	9	1
	14	6
	8	0

3. Fill in the table.

Rule	in	out
+6	4	10
		12
		9
		15
		6

Try This

4. Find the rule.

Rule	in	out
	8	13
	4	9
	13	
		10

5. Al read 5 more pages than Cindy.

If Cindy read 13 pages, how many pages did Al read? _____ pages

If Al read 10 pages, how many pages did Cindy read? _____ pages