

Function Machines

Concept

Guess my rule, then use it.

Name: _____

Date: _____

Think: Look at what happens to each IN number. What is done to it every time?

1. Guess my rule. Fill the blanks, then write the rule.

Machine A

IN ($\triangle$)	→	OUT ($\square$)
8	→	16
9	→	17
1	→	9
10	→	_____
_____	→	20

Rule: $\square =$ _____

Machine B

IN ($\triangle$)	→	OUT ($\square$)
4	→	1
7	→	4
10	→	7
12	→	_____
_____	→	12

Rule: $\square =$ _____

Machine C

IN ($\triangle$)	→	OUT ($\square$)
21	→	14
17	→	10
8	→	1
9	→	_____
_____	→	7

Rule: $\square =$ _____

Machine D

IN ($\triangle$)	→	OUT ($\square$)
2	→	7
9	→	14
13	→	18
7	→	_____
_____	→	11

Rule: $\square =$ _____

2. A machine adds 8.

- a) If 15 goes IN, what comes OUT? _____
- b) If 30 comes OUT, what went IN? _____
- c) Make your own rule and give it to a friend. Rule: $\square =$ _____