

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 ($\triangle$)	$\rightarrow$	OUT ($\square$)
16	$\rightarrow$	22
0	$\rightarrow$	6
1	$\rightarrow$	7
4	$\rightarrow$	_____
_____	$\rightarrow$	20

Rule: $\square =$ _____

Machine B

IN ($\triangle$)	$\rightarrow$	OUT ($\square$)
10	$\rightarrow$	6
13	$\rightarrow$	9
16	$\rightarrow$	12
19	$\rightarrow$	_____
_____	$\rightarrow$	11

Rule: $\square =$ _____

Machine C

IN ($\triangle$)	$\rightarrow$	OUT ($\square$)
7	$\rightarrow$	10
6	$\rightarrow$	9
14	$\rightarrow$	17
1	$\rightarrow$	_____
_____	$\rightarrow$	16

Rule: $\square =$ _____

Machine D

IN ($\triangle$)	$\rightarrow$	OUT ($\square$)
8	$\rightarrow$	13
3	$\rightarrow$	8
4	$\rightarrow$	9
15	$\rightarrow$	_____
_____	$\rightarrow$	16

Rule: $\square =$ _____