

Function Machines

Practice

Bigger numbers — and times, not just plus.

Name: _____ Date: _____

Think: The rule might multiply. Try: does OUT = IN doubled? tripled?

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

Machine A

IN ($\triangle$)	→	OUT ($\square$)
9	→	24
8	→	23
13	→	28
4	→	_____
_____	→	20

Rule: $\square =$ _____

Machine B

IN ($\triangle$)	→	OUT ($\square$)
20	→	15
8	→	3
6	→	1
12	→	_____
_____	→	0

Rule: $\square =$ _____

Machine C

IN ($\triangle$)	→	OUT ($\square$)
10	→	30
4	→	12
0	→	0
13	→	_____
_____	→	36

Rule: $\square =$ _____

Machine D

IN ($\triangle$)	→	OUT ($\square$)
5	→	15
2	→	12
14	→	24
15	→	_____
_____	→	21

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: $\square =$ _____