

Patterns \rightarrow Input Output tables

example:

In	Out
1	4
2	8
3	12

Rule: Input $\times 4 =$ output

OR
Output $\div 4 =$ Input

* When moving from input to output follow rule

* When moving from output to input do the opposite

* RULE MUST ALWAYS WORK!

In	Out
4	4
20	8
36	12

\rightarrow In to out so I follow rule
 $20 \div 4 = 5$, $5 + 3 = 8$

\rightarrow Out to in so I do opposite
 $12 - 3 = 9$, $9 \times 4 = 36$

rule $\rightarrow \div 4 + 3$