

THE PATTERN MACHINE

A certain pattern machine turns wiggles into wobblies. Look at the table below and determine what the machine is doing to each wiggly to turn it into a wobbly. Whatever the pattern machine does to any one wiggly, it does to all wiggles.

Wiggles	Wobblies
3	8
0	2
6	14
5	12
7	16
1	4

1. What is the wiggly-wobbly rule for this pattern machine?
2. What would the pattern machine do to each of the following wiggles?

Wiggles	Wobblies
4	_____
9	_____
100	_____
40	_____
31	_____
19	_____

3. Create your own pattern machine rule and make up your own set of wiggles and wobblies. Share your wiggles and wobblies with a partner and see if he or she can discover your pattern machine rule.

[Source: A Guide to K-12 Program Development in Mathematics, Connecticut State Department of Education]