Logical Number Sequence Algorithms Worksheet

Name(s) _____   Date_____

Note to teacher: Add suitably challenging number sequences to the first column. You may also wish to replace the first example with one more suited to your class' level.

Sequence (what comes next?)	Explain the rule (algorithm)	Explain how you worked it out
11, 26, 41, 56, ___, 86	add 15 to the previous number	Looked at numbers but couldn't see pattern. Looked at the 1st 2 numbers and took 11 away from 26 = 15. Looked at next 2 numbers and took 26 away from 41 = 15. Saw a pattern. Tested it with 56-41 - also 15. Predicted next number would be 56 +15 = 71. Checked to 86. Rule is add 15 to the previous number. Missing number is 71.
1 2 4 8 16 ___ ___ ___		
3.5 6 9.5 14 ___ ___ ___		

Barefoot