Worksheet 6

Writing and Evaluating Algebraic Expressions

1 A number machine changes the input number w to an output number x according to a rule.

(a)

Input w	8	9	10	4	15
Output x	16	18	20	8	30

Write an algebraic expression for x in terms of w to describe the rule used by the machine.

$x =$

(b) Complete the table using the rule.

Input w	7			6
Output x		24	36	

2 wrote a spreadsheet programme that changed the input number k using the rule $\dfrac{k}{5}$.

Complete the table using 's rule.

Input k	Output
5	
10	
	7
	20
45	