

How can you write $a \times 3 + 5$ differently? $3a + 5$

Are $2a + 6$ and $6 + 2a$ the same? Explain

Yes because it doesn't matter if you add the 6 before or after.

$2a$ means $2 \times a$ and this has to be done together.

So $2a + 6$, if $a = 4$ $2 \times 4 = 8 \rightarrow 8 + 6 = 14$

Or $6 + 2a$, if $a = 4$ $6 + (2 \times 4) \rightarrow 6 + 8 = 14$.

Here is an expression that has come from a function machine:

Output = $4a + 3$

- What is the output if the input, a , is 7? $\rightarrow 4 \times 7 = 28$
 $28 + 3 = 31$
- What is the output if the input is 2.5? $\rightarrow 4 \times 2.5 = 10$
 $10 + 3 = 13$
- What is the input if the output is 63? $\rightarrow 63 - 3 = 60$
 $60 \div 4 = 15$

This should say 'the!'

Complete the table of values for the following function.

$5 + 2a$

Input	5	7	35	12.5
Output	15	19	75	30

$5 + (2 \times 5)$ $5 + (2 \times 7)$

$75 - 5 = 70$
 $70 \div 2 = 35$

$30 - 5 = 25$
 $25 \div 2 = 12.5$