

Function Machines and Functions *ramp up*

ANSWERS

a Find the output  $7 \rightarrow \boxed{\times 4} \rightarrow ?$ <u>28</u> one step	b Find the output  $5 \rightarrow \boxed{\times 2} \rightarrow \boxed{+ 3} \rightarrow ?$ <u>13</u> two steps	c Find the output  $5 \rightarrow \boxed{+ 3} \rightarrow \boxed{\times 2} \rightarrow ?$ <u>16</u> the steps in the order given	d Find the input  $? \rightarrow \boxed{\times 4} \rightarrow 32$ <u>8</u> one step backwards
e Find the input  $? \rightarrow \boxed{\times 3} \rightarrow \boxed{- 2} \rightarrow 13$ <u>5</u> two steps backwards	f Find the input  $? \rightarrow \boxed{+ 4} \rightarrow \boxed{\times 2} \rightarrow 22$ <u>7</u> undo the last step first	g Find the output  $-3 \rightarrow \boxed{\times 2} \rightarrow \boxed{+ 10} \rightarrow ?$ <u>4</u> a negative input	h Find the output  $n \rightarrow \boxed{\times 5} \rightarrow \boxed{- 1} \rightarrow ?$ <u>$5n - 1$</u> an input of n
i Find the output  $n \rightarrow \boxed{- 1} \rightarrow \boxed{\times 5} \rightarrow ?$ <u>$5(n - 1)$</u> an input of n: a bracket	j Find the output  $n \rightarrow \boxed{+ 3} \rightarrow \boxed{\div 2} \rightarrow ?$ <u>$\frac{n + 3}{2}$</u> an input of n: a fraction	k Fill in the boxes  $n \rightarrow \boxed{} \rightarrow \boxed{} \rightarrow 2n + 7$ <u>$\times 2$, then $+ 7$</u> the steps from the output	l Find the input  $? \rightarrow \boxed{\times 2} \rightarrow \boxed{+ 1} \rightarrow 2n + 7$ <u>$n + 3$</u> an expression backwards

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