
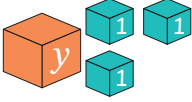



1) Rhys uses cubes to write expressions for function machines. Draw the missing cubes and write the missing inputs and expressions. The first one has been completed for you.




a) 

Input	$+ 3$	Output
	→	
$y$	→	$y + 3$


b) 

Input	$+ 5$	Output
	→	
	→	


c) 

Input	$\times 3$	Output
	→	
	→	


d) 

Input	$\times 5$	Output
	→	
	→	

e) 

Input	$\times 3, + 1$	Output
	→	
$y$	→	$3y + 1$


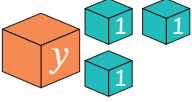
f) 

Input	$+ 5, \times 2$	Output
	→	
	→	


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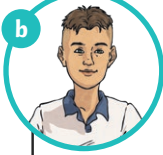
Input	$+ 5, \times 2$	Output
	→	
	→	

- 1) Four children write expressions to describe their pocket money for the week. Are their expressions correct or incorrect? If an expression is incorrect, write the correct expression.



I spent half my pocket money going to the cinema. Then, I washed the car and earned £7.

$$y \div 2 + 7$$



I cleaned my bedroom and earned £4 to add to my pocket money. Then, my mum tripled my total pocket money for getting a great school report!

$$3(y + 5)$$



I spent £3 of my pocket money on a magazine. Then, I completed my paper round and earned £10

$$10(y - 3)$$



My grandpa gave me £12 to add to my pocket money. Then, I gave half of all my pocket money away to charity.

$$y + 12 - 2$$

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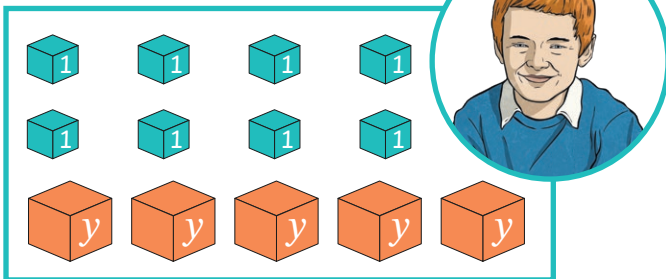
$$y + 12 - 2$$

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- 1) Harry is using the following cubes to form expressions.



Using any amount of the cubes, how many different expressions can you write that use addition and/or multiplication?

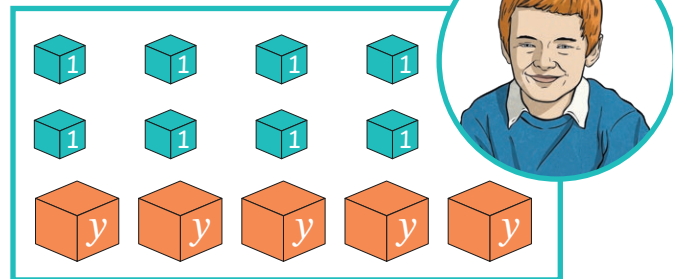


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