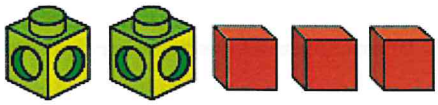
24/02/21

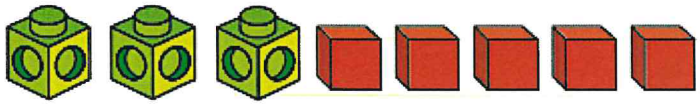
Tommy uses multilink cubes to represent an unknown number and base ten ones to represent 1

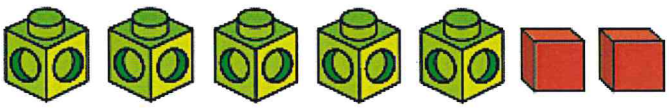
 = x  = 1

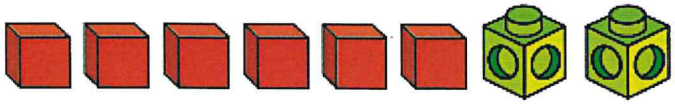
Write algebraic expressions to describe the sets of cubes.

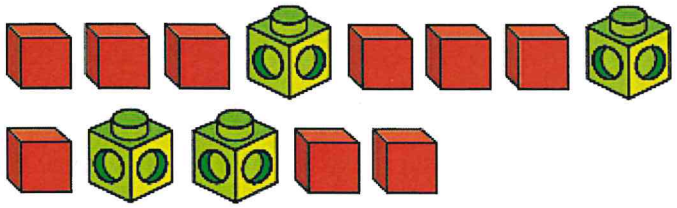
The first one has been done for you.

a)  $2x + 3$

b)  $3x + 5$

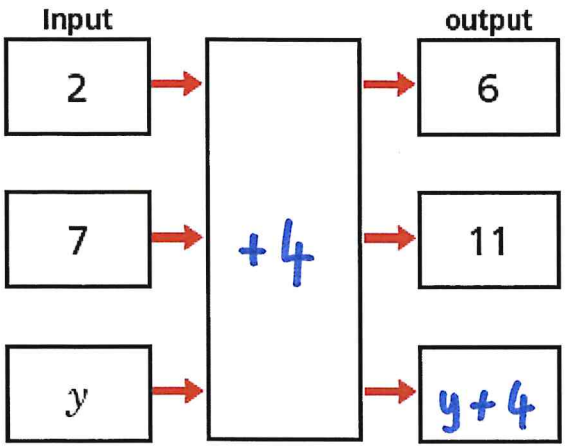
f)  $5x + 2$

g)  $2x + 6$

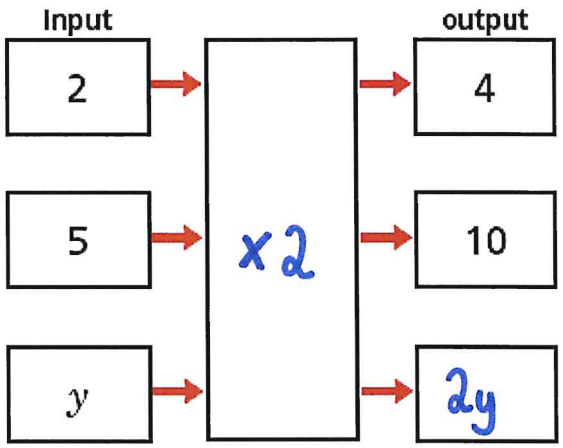
h)  $4x + 9$

Complete the function machines.

a)

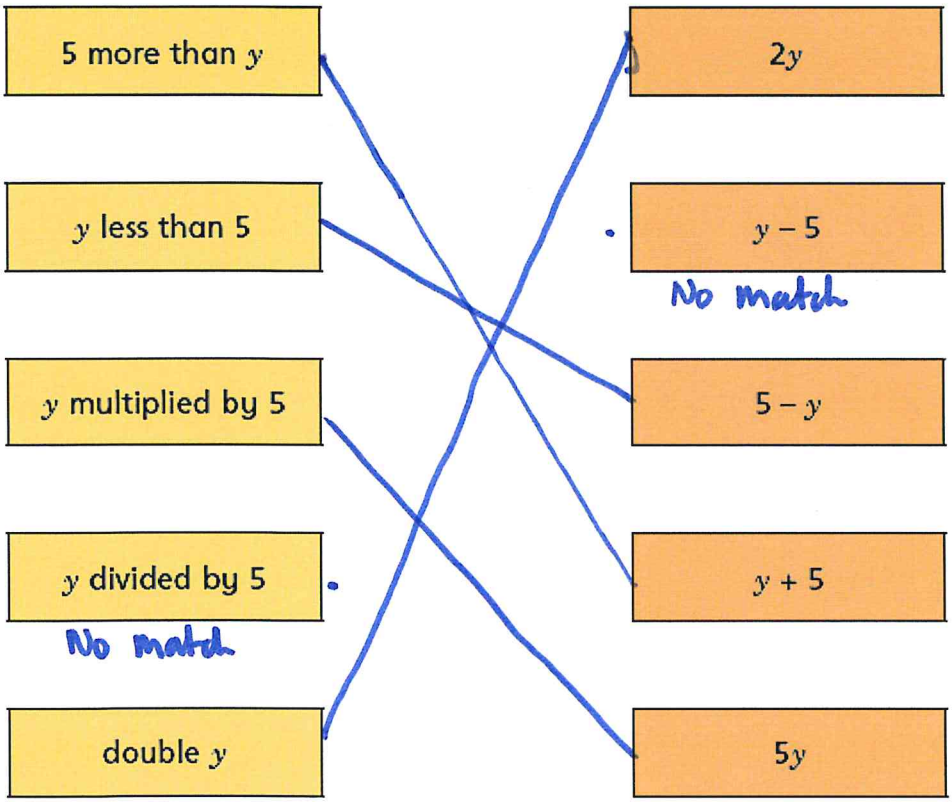


b)

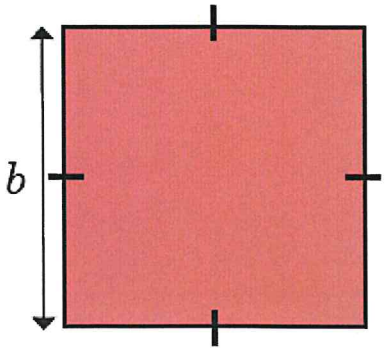


Match each statement to the equivalent algebraic expression.

Write the missing statements.

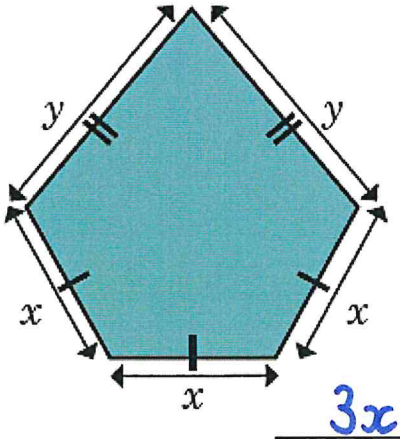


Write an algebraic expression to represent the perimeter of each shape.



4b

e)



3x + 2y

Working Deeper

Complete the bar models.

a)

2a	
a	a

b)

2b + 10		
b	b	10

c)

c			
$\frac{c}{4}$	$\frac{c}{4}$	$\frac{c}{4}$	$\frac{c}{4}$

d)

$d + 5$		
$\frac{d}{2}$	$\frac{d}{2}$	5

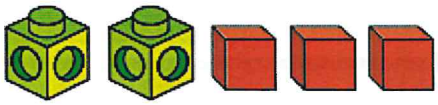
24/02/21

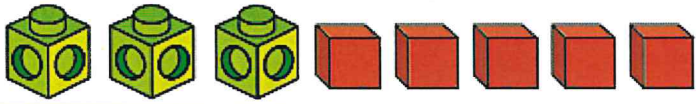
Tommy uses multilink cubes to represent an unknown number and base ten ones to represent 1

 = x  = 1

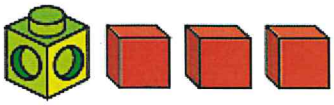
Write algebraic expressions to describe the sets of cubes.

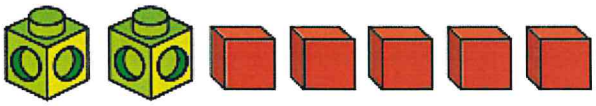
The first one has been done for you.

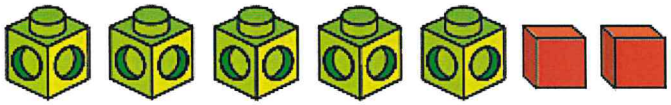
a)  $2x + 3$

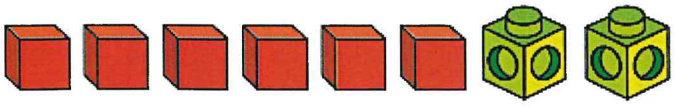
b)  $3x+5$

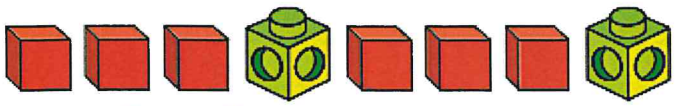
c)  $3x$

d)  $x + 3$

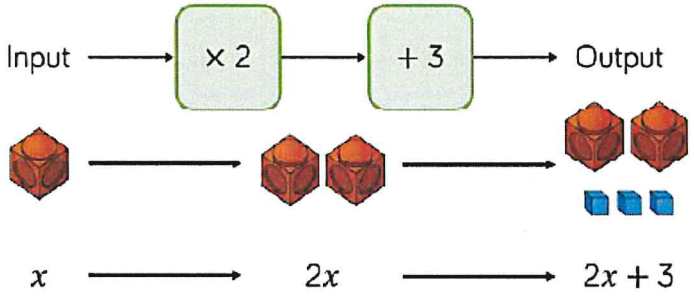
e)  $2x+5$

f)  $5x + 2$

g)  $2x + 6$

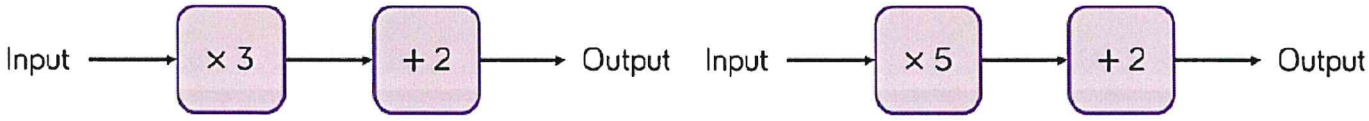
h)  $4x + 9$

Eva is writing expressions for two-step function machines.



$x \longrightarrow 2x \longrightarrow 2x + 3$

Use Eva's method to write expressions for the function machines.



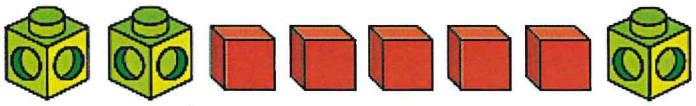
□ → □□□ → · · → □□□

$x \longrightarrow 3x \longrightarrow +2 \longrightarrow 3x+2$

Use cubes to help you simplify the following expressions.

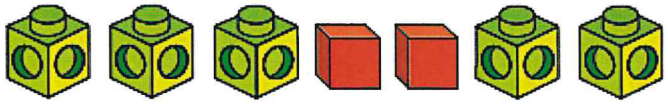
The first one has been done for you.

a) $2y + 5 + y$



$3y + 5$

b) $3a + 2 + a + a$



$5a + 2$

c) $6p + 2 - 2p$

$4p + 2$