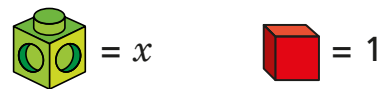


Forming expressions



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

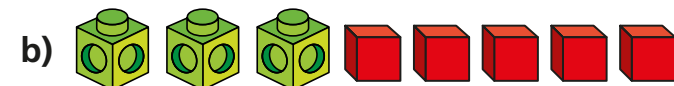


Write algebraic expressions to describe the sets of cubes.

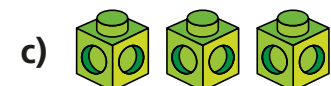
The first one has been done for you.



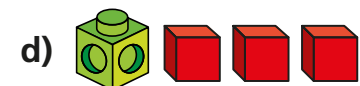
$2x + 3$



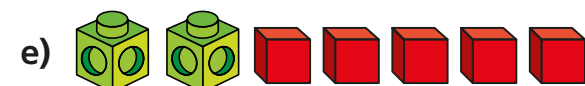
$3x + 5$



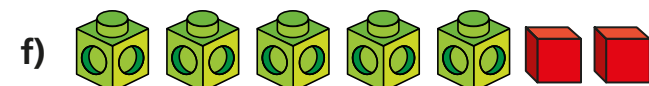
$3x$



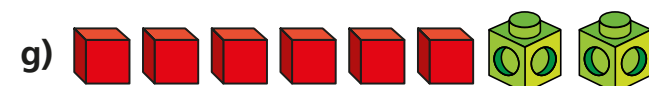
$x + 3$



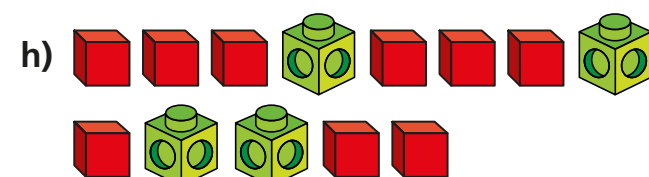
$2x + 5$



$5x + 2$



$2x + 6$



$4x + 9$

- 2 Use Tommy's method to represent these expressions.

a) $x + 2$

c) $3x + 1$

b) $2x$

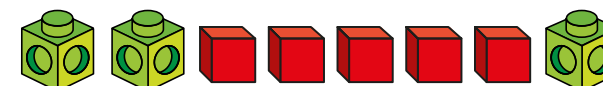
d) $x + 6$

Compare answers with a partner.

- 3 Use cubes to help you simplify the following expressions.

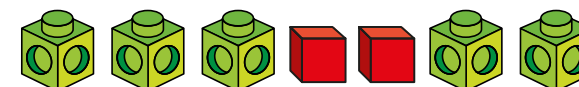
The first one has been done for you.

a) $2y + 5 + y$



$3y + 5$

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



$5a + 2$

c) $6p + 2 - 2p$

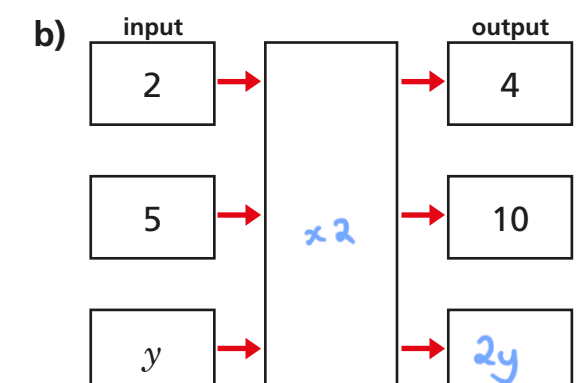
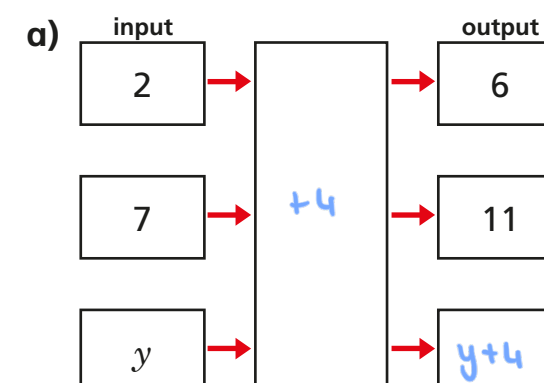


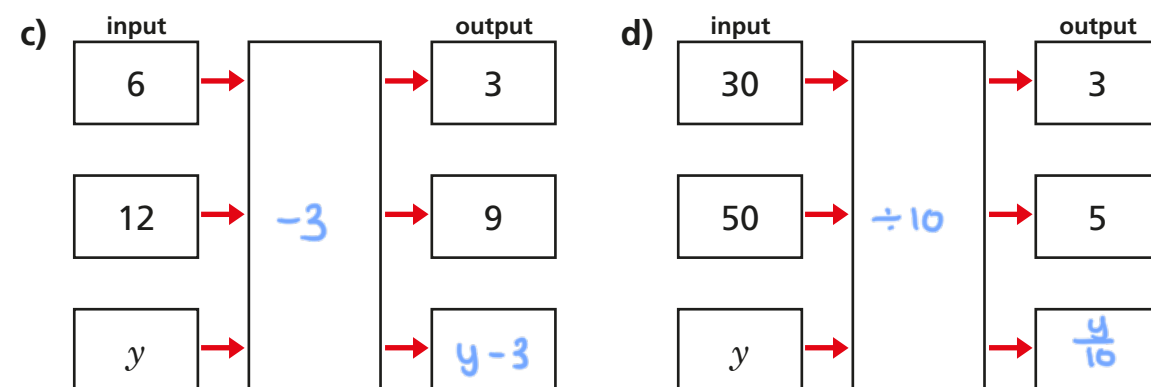
$4p + 2$

d) $m + 4 + 3m - 3$

$4m + 1$

- 4 Complete the function machines.

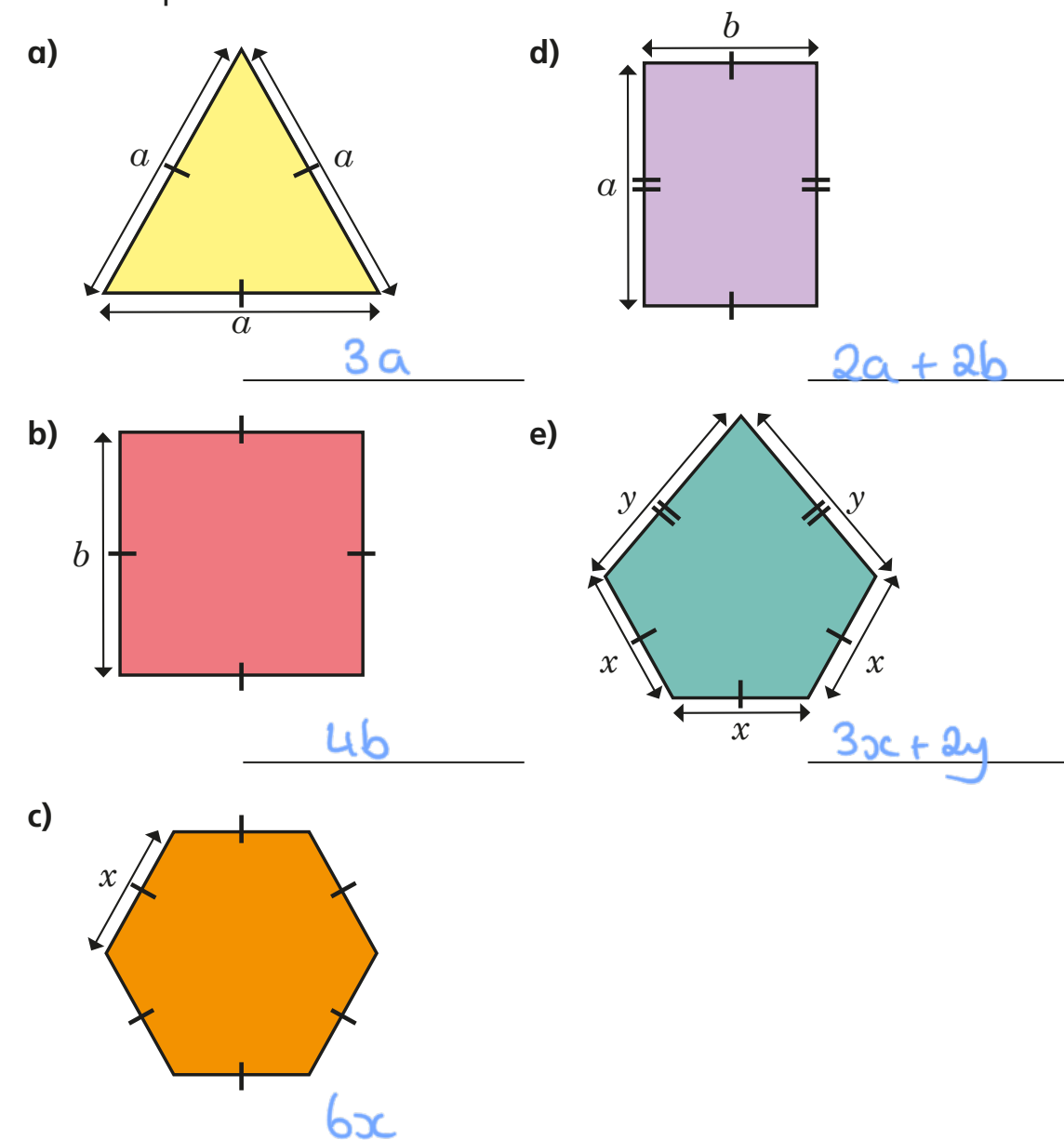




- 5 Match each statement to the equivalent algebraic expression.
Write the missing statements.

5 more than y	$2y$
y less than 5	$y - 5$
y multiplied by 5	$5 - y$
y divided by 5	$y + 5$
double y	$5y$
5 less than y	y^2
y multiplied by y	$\frac{y}{5}$

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



- 7 Complete the bar models.

