

Forming expressions

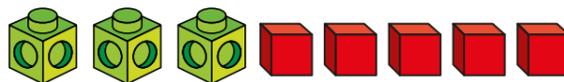
- 1 Tommy uses multilink cubes to represent an unknown number and base ten ones to represent 1



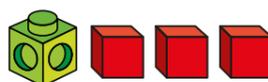
Write algebraic expressions to describe the sets of cubes.

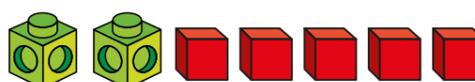
The first one has been done for you.

a)  2x + 3

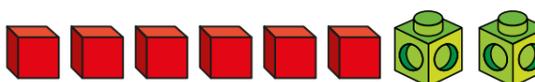
b)  3x + 5

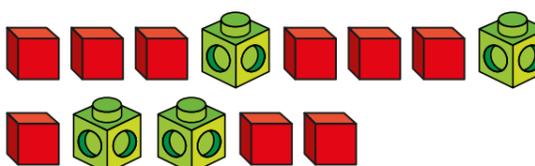
c)  3x

d)  x + 3

e)  2x + 5

f)  5x + 2

g)  2x + 6

h)  4x + 9



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

a) $x + 2$

c) $3x + 1$

b) $2x$

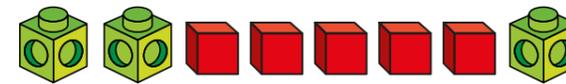
d) $x + 6$

Compare answers with a partner.

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

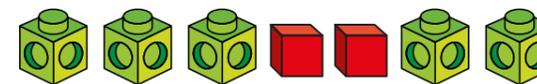
The first one has been done for you.

a) $2y + 5 + y$



3y + 5

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



5a + 2

c) $6p + 2 - 2p$

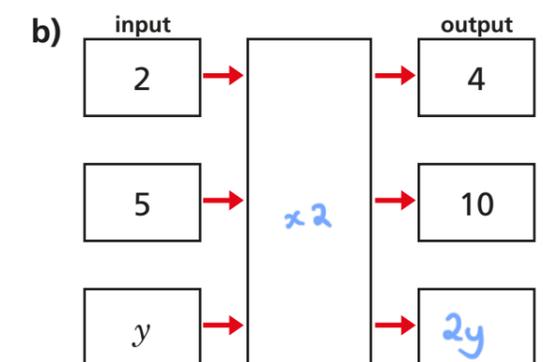
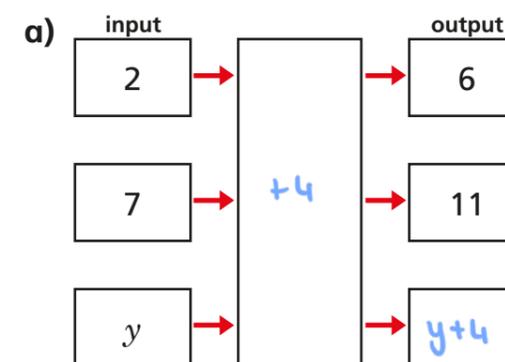


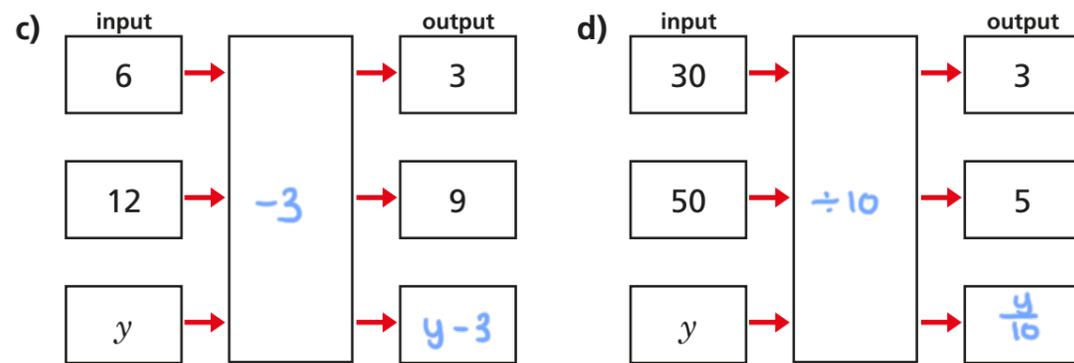
4p + 2

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

4m + 1

- 4 Complete the function machines.

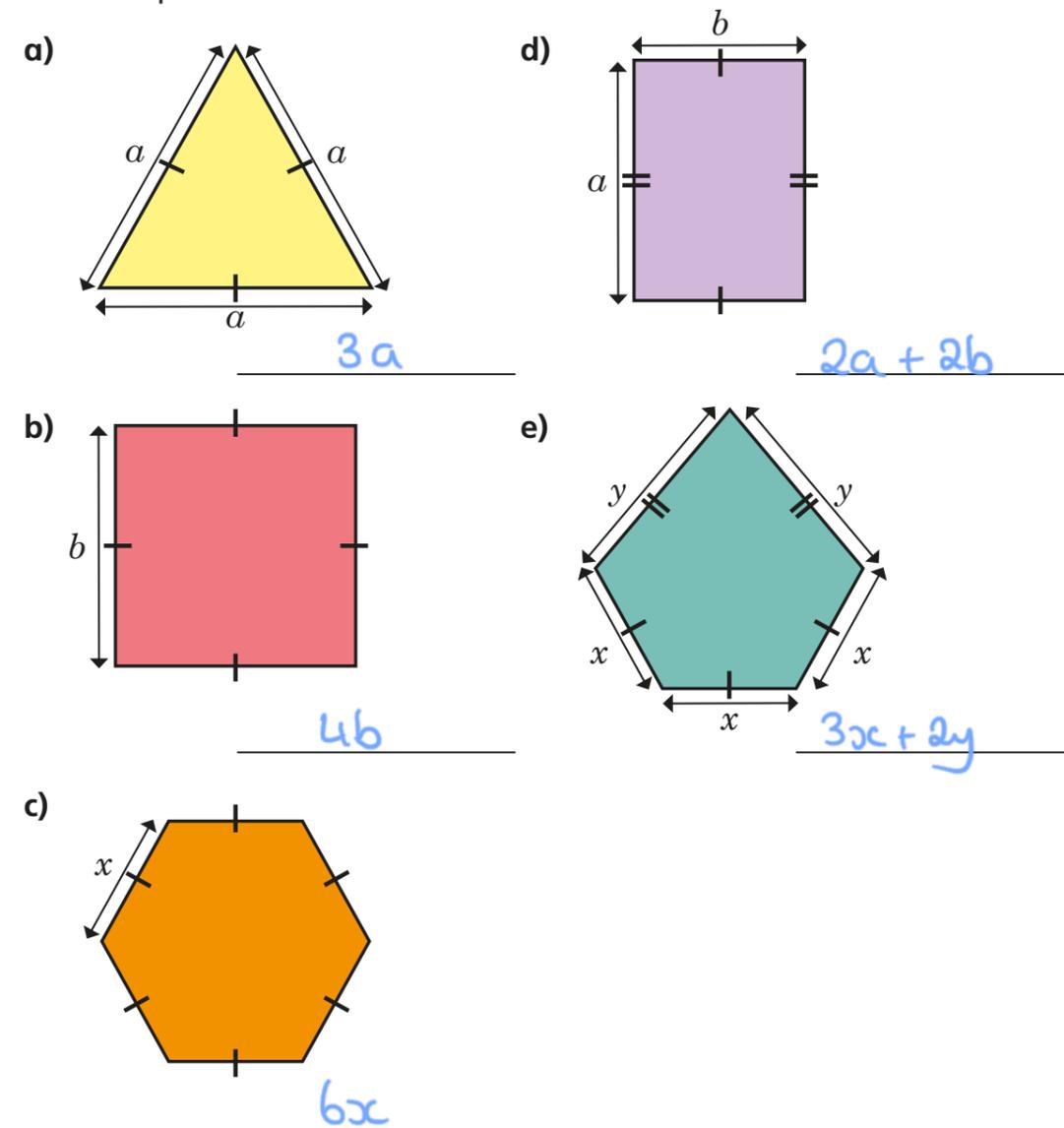




5 Match each statement to the equivalent algebraic expression. Write the missing statements.

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.

