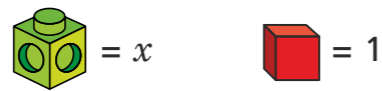


# Forming expressions



- 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

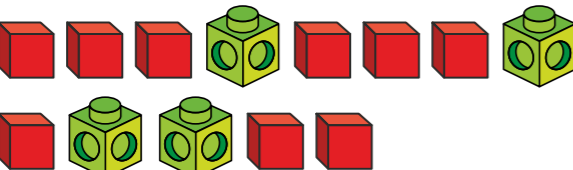
c)  3x

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)  $2x$

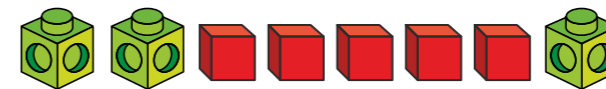
d)  $x + 6$

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)  $6p + 2 - 2p$

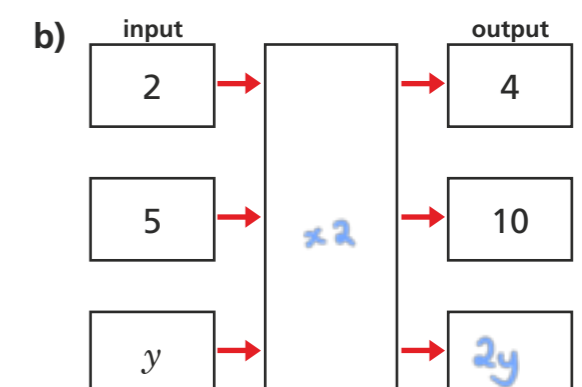
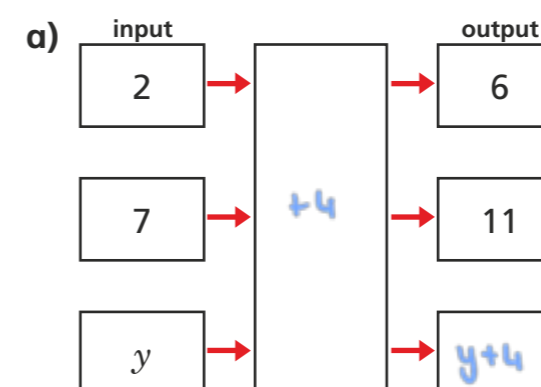


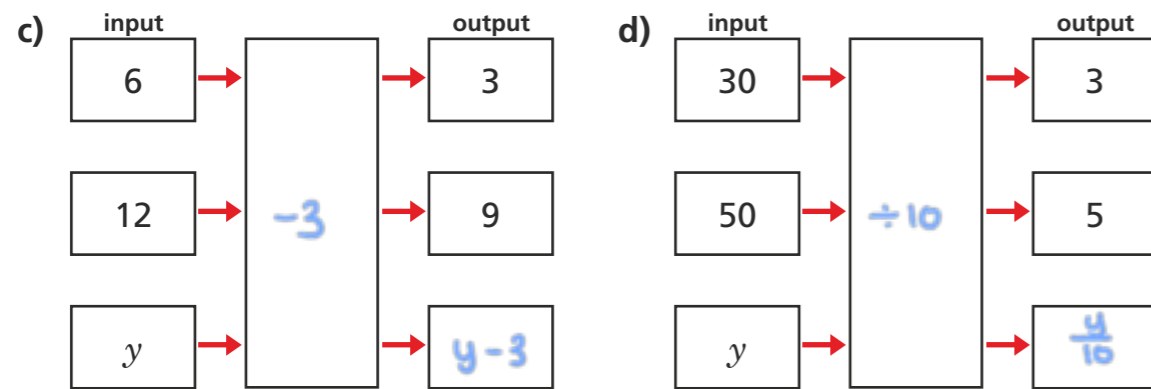
4p + 2

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

4m + 1

- 4 Complete the function machines.

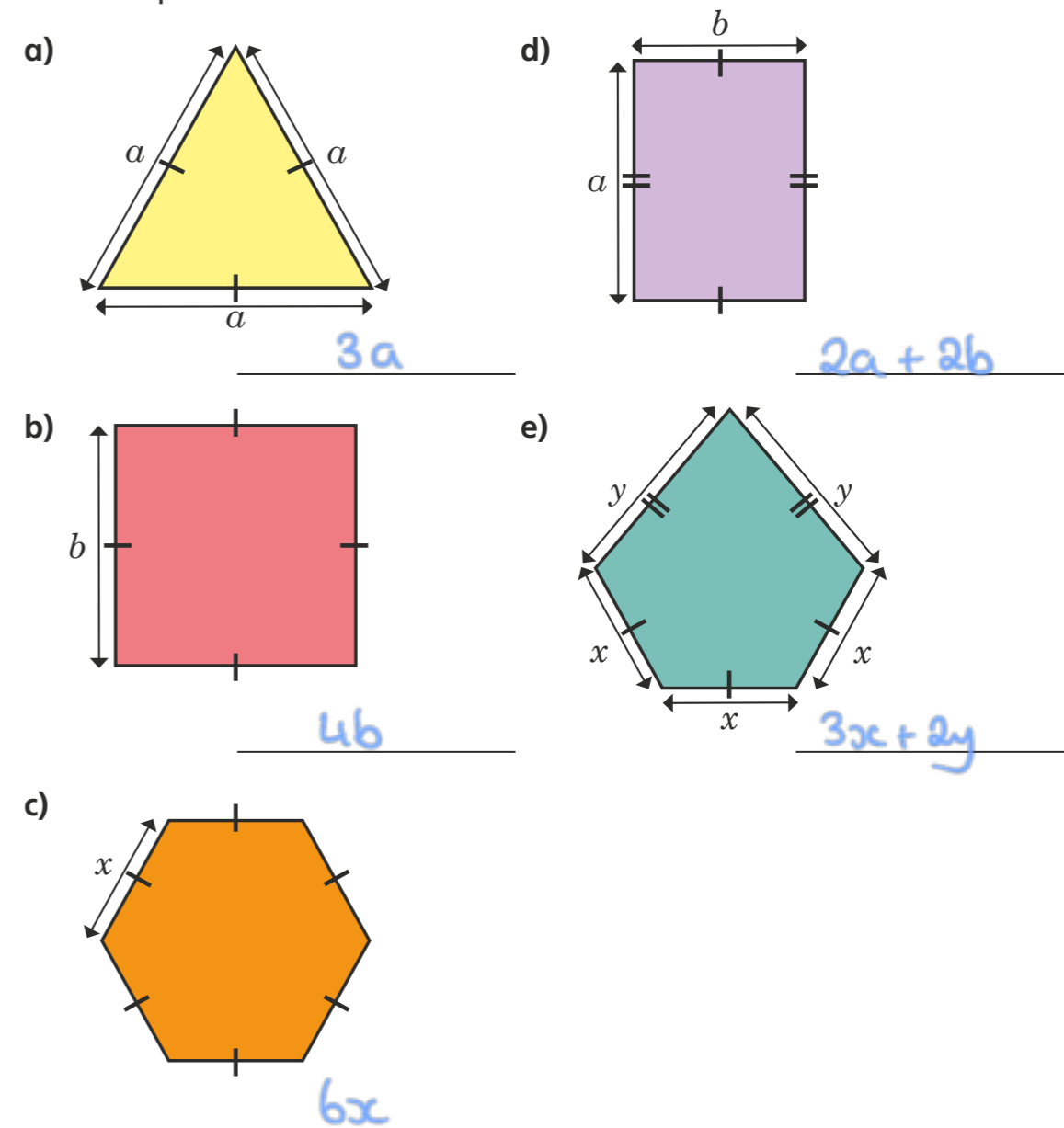




5 Match each statement to the equivalent algebraic expression.  
Write the missing statements.

|                       |               |
|-----------------------|---------------|
| 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.

