1) Draw lines to match the representations to the correct expression.
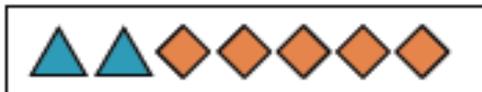
$\triangle = x$ $\diamond = 1$
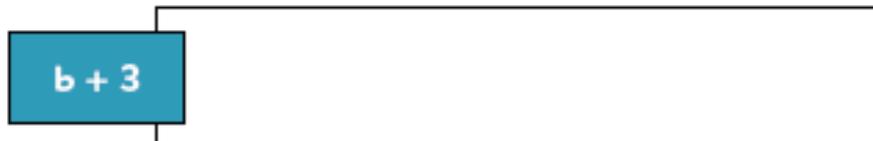
$\triangle \diamond \diamond \diamond$	$3x + 4$
$\triangle \triangle \triangle \diamond \diamond$	$x + 3$
$\triangle \triangle \diamond \diamond \diamond \diamond \diamond$	$3x + 2$
$\triangle \triangle \triangle \diamond \diamond \diamond \diamond$	$2x + 5$

2) Draw the correct representations for the expressions below.

$\triangle = b$ $\diamond = 1$

$b + 3$

$2b + 2$

$3b + 6$

3) Write these statements as algebraic expressions.

a) 5 lots of c add 9 =

b) 4 lots of g subtract 3 =

c) 7 lots of h add 6 =

d) 10 lots of s subtract 5 =

4) Simplify these expressions.

a) $b + b + 3$ =

b) $2b + 3b + 7$ =

c) $7b - 4b + 2 + 3$ =

d) $5b + 6 - b$ =

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5) Farmer Callum wants to know the perimeter of his field.

$y + 3$

$y + 1$

Write the expression to help him work it out.

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6) Camille and Joe are looking at this function machine, which is missing the function.

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Camille says: the function could be +5 – 2.

Joe says: the function could be +3.

Who do you agree with? Explain your answer.

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