Algebra problems

Expressions can be simplified by putting the terms together, for example h + h + h can be written as 3h and 5y + 3 + 4 - 2y can be written as 3y + 7. Expressions are also a shorthand way of writing longer number statements or sentences, for example 'Five less than a mystery number' can be written as x - 5.

1. Simplify the following expressions.

c.
$$g + 6 + g - 8 =$$

f.
$$3x + 2y + 2x - y =$$



2. The mystery number is x. Draw a line to match each description in words with the correct expression.

The mystery number multiplied by six and added to two. x + 3

Two divided by the mystery number. 50 \div x

Three more than the mystery number. 6x + 2

The mystery number added to two then multiplied by six.

The mystery number divided by two. $x \div 50$

The mystery number divided by fifty. $2 \div x$

Fifty divided by the mystery number. $x \div 2$

The mystery number multiplied by itself. 6(x + 2)