

**Write the following as algebraic expressions:**

The difference between two numbers is 55.

The product of 10 and  $p$  is equal to the quotient of  $q$  and 12.

The difference between 4 and  $4y$  is equal to 6.

The product of 7 and 14 is equal to four less than the sum of  $x$  and  $y$ .

The sum of 6 and a number.

The product of the square of 5 and a number.

The difference between 4 and a larger number.

The sum of a number and twice the number.

14 less than a number.

3 more than 5 times a number.

1 less than the product of a number and 16.

Write a number sentence to describe the problem.

- a) Six increased by three times a number is 42.
- b) Twice a number minus 4 is equal to 16.
- c) The sum of two numbers is 45. The second number is two times as big as the first number.