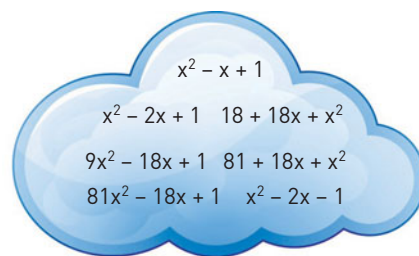


YOU & MATHS In the cloud Determine the correct answers choosing from the cloud.

$$(x - 1)^2 = \boxed{}$$

$$(9 + x)^2 = \boxed{}$$

$$(9x - 1)^2 = \boxed{}$$



vectorlib.com / Shutterstock

The cloud contains various polynomials, of which three are expansions of the squares of the three binomials on the left. These expansions will have 3 terms each: the two squares of the terms and twice the product of the terms.

The expansion of the square $(x - 1)^2$ will have three terms, of which two have to be the squares of the terms x^2 and 1. This reduces the choice to two of the polynomials in the cloud: $x^2 - x + 1$ and $x^2 - 2x + 1$. Knowing that twice the product of x and -1 is $-2x$, the choice is: $(x - 1)^2 = x^2 - 2x + 1$.

Two terms of the expansion of $(9 + x)^2$ have to be 81 and x^2 . This already reduces the choice from the polynomials in the cloud to one: $(9 + x)^2 = 81 + 18x + x^2$.

The expansion of $(9x - 1)^2$ will have be $81x^2$ and 1. So $(9x - 1)^2 = 81x^2 - 18x + 1$.