

YOU & MATHS **Find it** Does there exist a number x such that $\frac{x-1}{x+2} = 4$? If so, find it; otherwise explain why not.

If such a number existed, it should be different from -2 , because otherwise the denominator would be 0 and the fraction would not exist; then the number should satisfy the following equation:

$$x - 1 = 4x + 8,$$

that is

$$-9 = 3x,$$

so $x = -3$, which is different from -2 , therefore the number is -3 .