



S-prime numbers

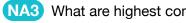
NA3 RT14

Let *S* be the set of all positive integers that are 1 more than a multiple of 10, so $S = \{1, 11, 21, 31, 41, \dots\}$.

We say that an element x of the set S is S-prime if x > 1 and whenever the elements a and b of the set S satisfy ab = x we have a = 1 or b = 1.

Are there distinct S-prime numbers a, b, c and d such that ab = cd?

Relevance



NA3 What are highest common factors and why do they matter?