

Re: question about finite groups

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John H Palmieri <palmieri@math.washington.edu> wrote:

: What is the smallest number n so that there are two non-isomorphic
: groups of order n , but with the orders of all of the elements being
: equal? (That is, I would like two non-isomorphic finite groups G and
: H , so that there is a (necessarily non-homomorphism) bijection
: $f: G \rightarrow H$ so that

: order of x = order of $f(x)$

:

: for all x in G .)

According to

http://www.math.niu.edu/~rusin/known-math/99/same_orders

it's order $n=16$.

Ted