

**Answer on question 38239 – Math – Abstract Algebra**

What is the number of elements in the smallest equivalence relation over set A with  $|A|=n$  ?  
In mathematics, an **equivalence relation** is a relation that, loosely speaking, partitions a set so that every element of the set is a member of one and only one cell of the partition.  
Therefore the smallest equivalence relation on a set A is

$$R\{(a, a) \mid a \in A\}$$

So,  $n(R)=n(A)=n$ .

**Answer:** n.