

## A warmup

Close your books and notes, and make a good-faith effort to define the following:

1. Equivalence class
2. Partition

Be sure to include any needed context or subtext for your definition to be complete. Even if you don't get it 100% right, this is a great opportunity to sharpen your understanding!

## Brief glimpses into math profession & culture

Largest professional organizations in the U.S:

1. AMS (American Mathematical Society)  
<http://www.ams.org/>
2. MAA (Mathematical Association of America)  
<https://www.maa.org/>

And, there are several other smaller and/or more specialized organizations (see the list of participating organizations in the JMM 2022 at <http://www.ams.org/meetings/national/national>).

### What do they do? (for you!)

Some examples:

- conferences/meetings
- resources for finding jobs, or applying to grad school
- prizes and/or scholarships and/or special funding opportunities
- math competitions and contests
- information about current salary trends in various fields
- math teaching, curricular, and program resources
- summer (and other) research internship resources

### The Joint Mathematics Meetings

- What is it?
- Why you should go for one!