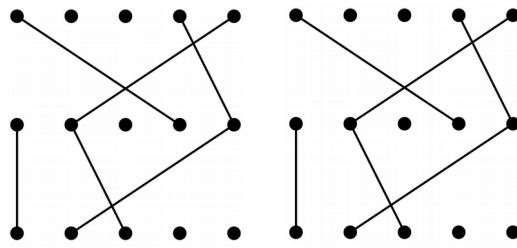


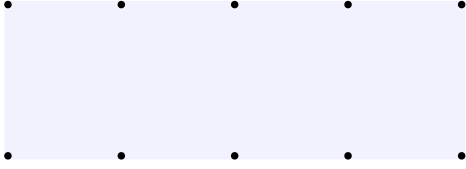
Fun with diagram semigroups



A diagram is worth a thousand words!

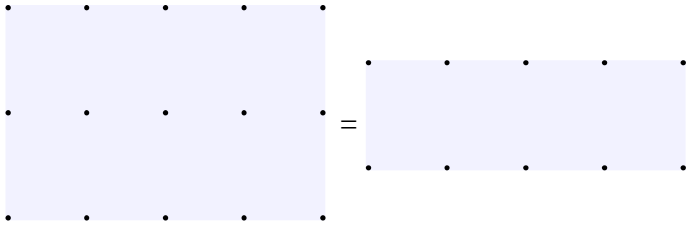


1. Multiply the two permutations on slide 2.

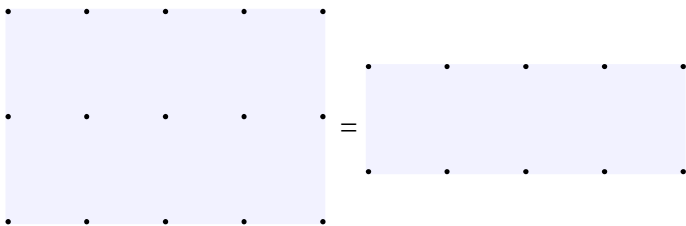


Transformations (slide 3)

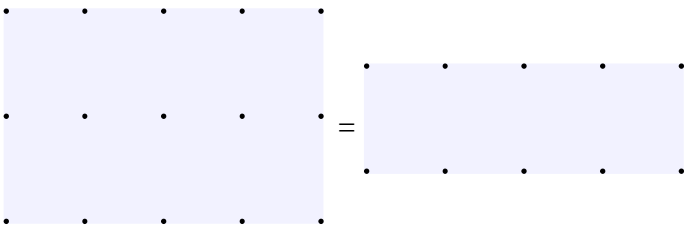
2. Calculate $\alpha\beta$.



3. How about $\beta\alpha$?

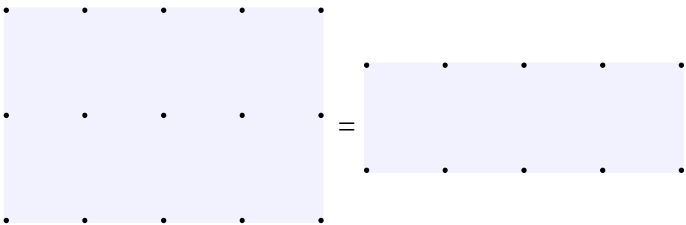


4. And finally, α^2 :

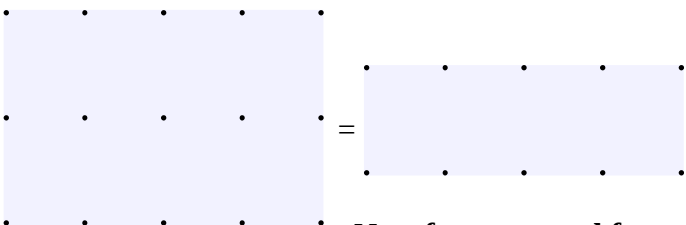


A little different: partial perms (slide 4)

5. What is $\alpha\beta$?



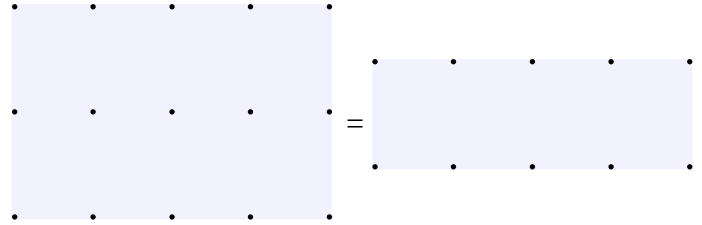
6. And $\beta\alpha$?



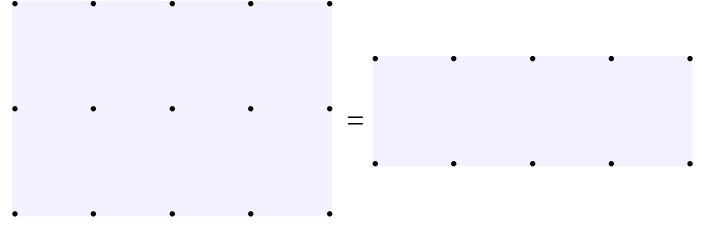
Now for some real fun.

The Brauer monoid!

7. Can you manage to calculate $\alpha\beta$ this time round?

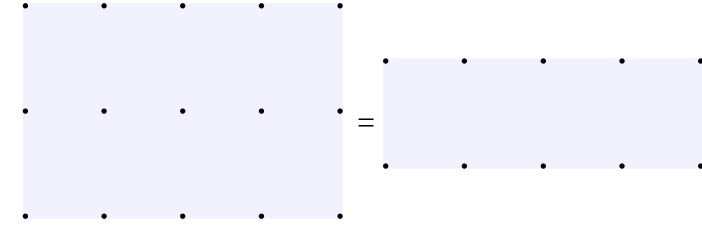


8. Another day, another $\beta\alpha$:

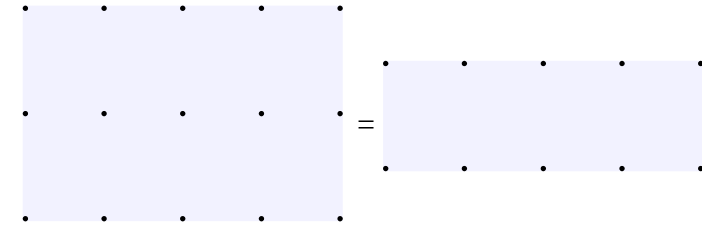


Partition monoid: good monoid or best monoid?

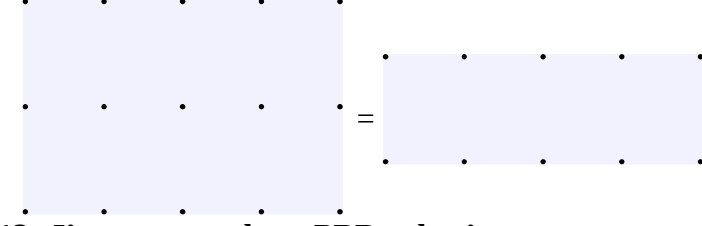
9. Once again, give me $\alpha\beta$.



10. And $\beta\alpha$? You might find this one surprising!



11. Calculate $\gamma\delta$. I hope you're sitting down for this one, because the answer will BLOW YOUR MIND.



12. I'm so sorry about PBRs, they're crazy.

