

Welcome to Math Circle

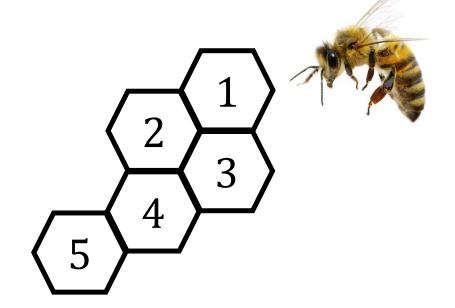
What is your favourite insect and why?

Please mute yourself and answer the question in the chat!

You Can Call Me Queen Bee

The Setting

The Queen Bee of the beehive is very strict. She wants the honeycombs of her hive colored a specific way.

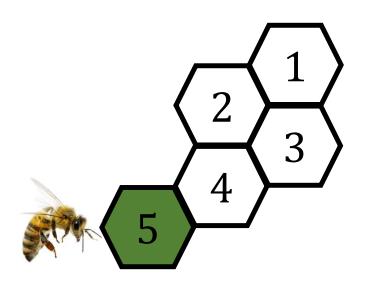


The Color Constitution

- A honeycomb should be green if by starting in that honeycomb, a bee can walk through the entire beehive without repeating any honeycombs, regardless of what path it takes.
- A honeycomb should be **yellow** if by starting in that honeycomb, a bee may be able to walk through the entire beehive without repeating a honeycomb, OR it may get stuck along the way, depending on the path.
- A honeycomb should be red if by starting in that honeycomb, a bee can never walk through the entire beehive without repeating any honeycombs, regardless of what path it takes.

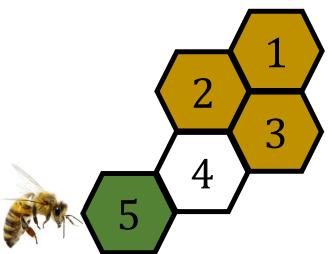
Article I

• A honeycomb should be **green** if by starting in that honeycomb, a bee can walk through the entire beehive without repeating any honeycombs, regardless of what path it takes.



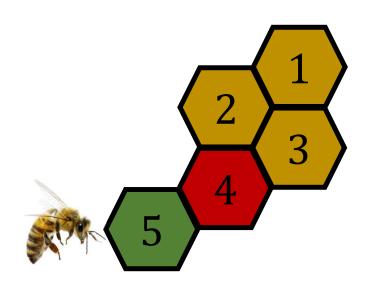
Article II

• A honeycomb should be **yellow** if by starting in that honeycomb, a bee **may** be able to walk through the entire beehive without repeating a honeycomb, or it **may get stuck along the way, depending on the path**.



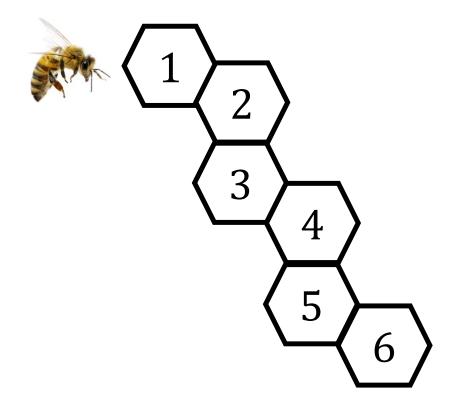
Article III

• A honeycomb should be **red** if by starting in that honeycomb, a bee can **never** walk through the entire beehive without repeating any honeycombs, **regardless of what path it takes**.

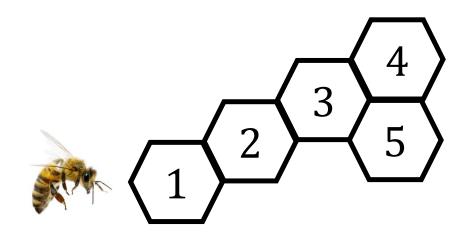




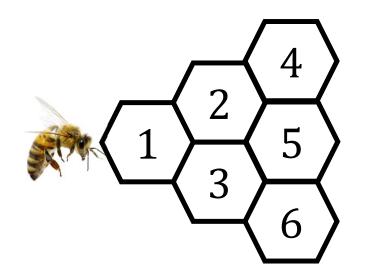
Breakout Rooms



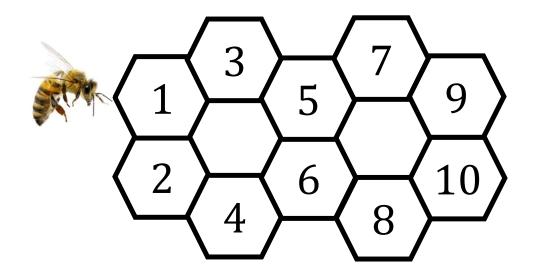




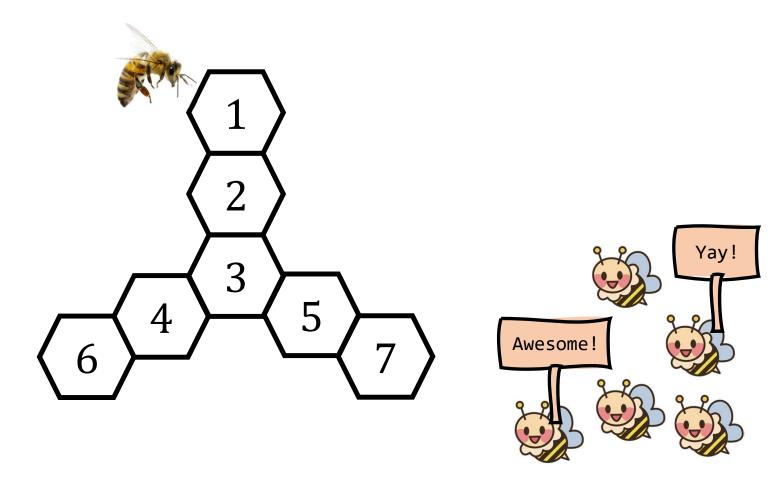


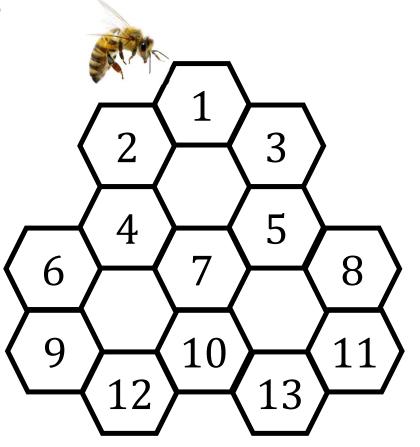


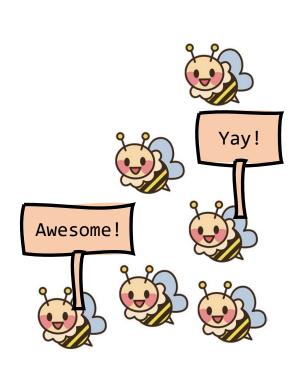












Bonus Example 7

