## Venn Puzzler: math version

## Your task:

- 1. Come up with 3 properties or definitions of sets so that each Euler diagram is correct (on the Venn Puzzler pdf).
- 2. Give an example of an element belonging to each region of your Euler diagram.

## Notes:

- 1. Each property or definition must be mathematical and precise.
- 2. All elements must be natural numbers (i.e.  $1, 2, 3, \ldots$ ).
- 3. The more succinct and elegant your properties or definitions, the more points you earn.

Bonus: you can try experimenting with finding examples of other Euler diagrams with 3 sets, as well as the 3 properties/definitions and examples in each region.