## Definition

Let X be any set. A collection  $\{A_n\}_{n \in I}$  of subsets of X is called a **partition** if

- $X = \bigcup_{n \in I} A_n \text{ (exhaustive)};$
- **②** For any m, n, either

$$A_m = A_n$$
 or  $A_m \cap A_n = \emptyset$ .

<□ > < □ > < □ > < Ξ > < Ξ > Ξ の Q ↔ 3/10

Basically, if the sets overlap, they must be equal!