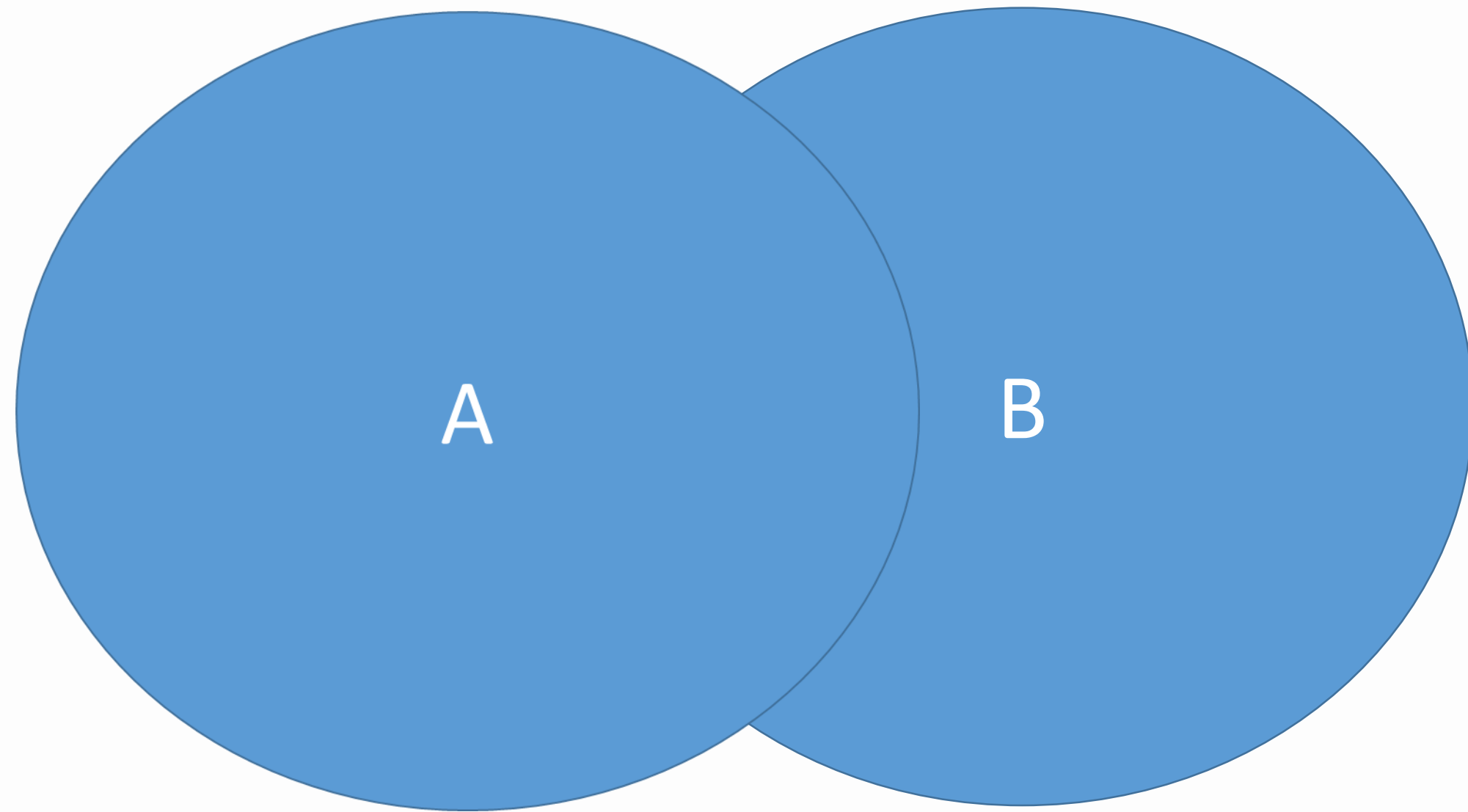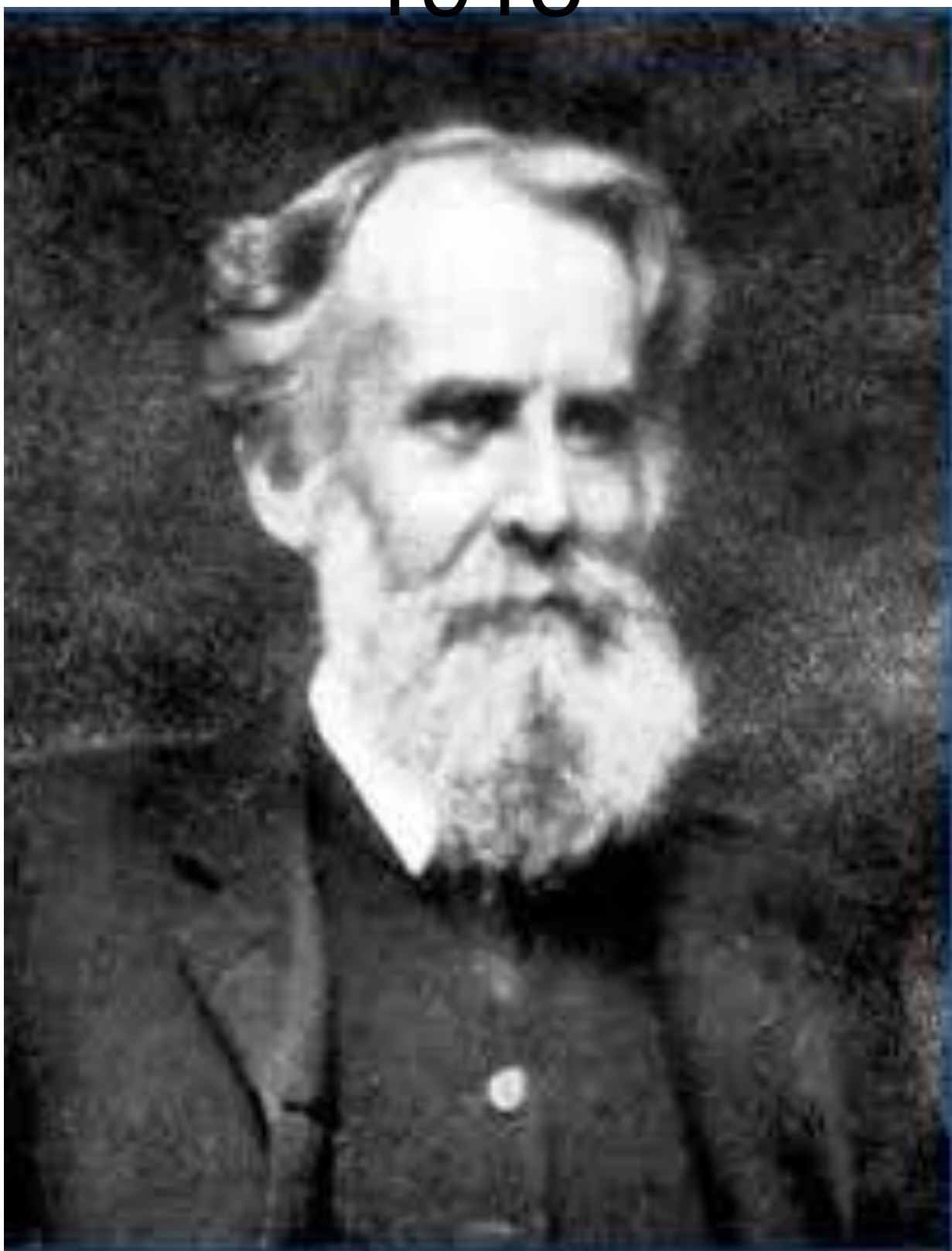# Venn Diagrams
by Wade Jackson
Advisor: Kathleen Fick

Definition:
Venn Diagrams are a schematic diagram used in logic theory to depict collections of sets and represent their relationships

History:
- Created by John Venn
- Similar to diagram created by Gottfried Wilhelm von Leibnitz
- created in 1866
- Were not called Venn diagrams until 1918

Boolean logic
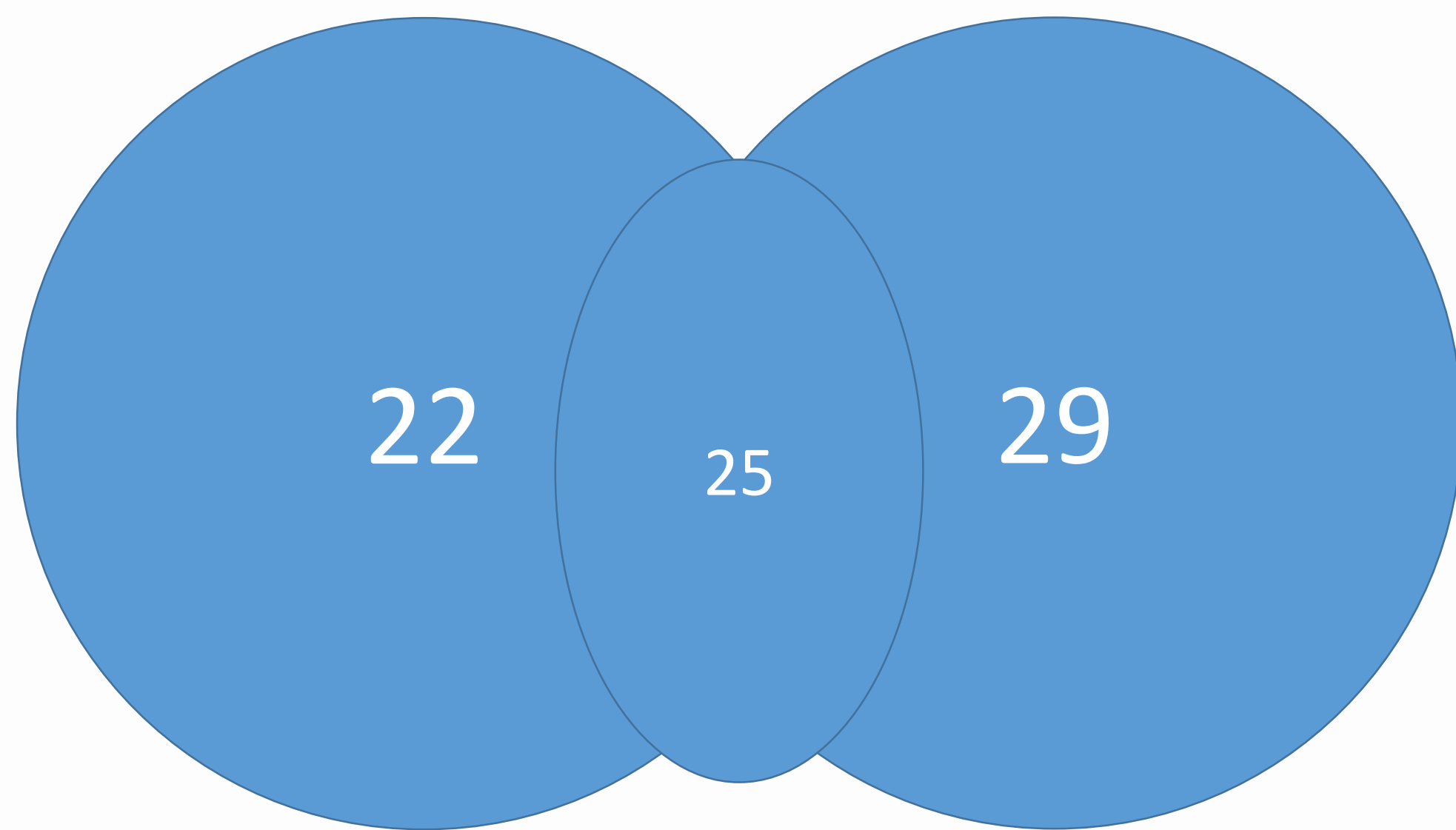Intercept: AnB or A and B
An Element in both A and B
Union: AuB or A or B
An Element in either A or B
Difference: A-B
An Element in A that is not in B

Example
100 students were interviewed
47 like Ice Cream
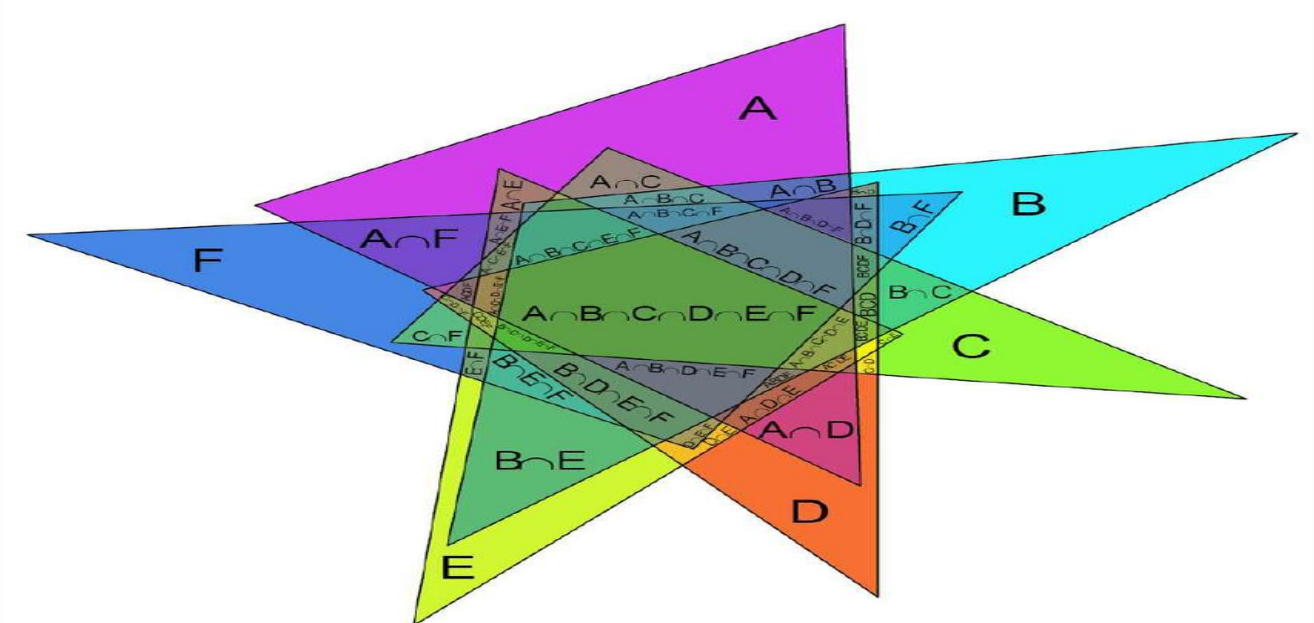54 like Cookies
25 like both Ice cream and cookies

22   25   29

- Formed by Universal Set "U"
Testing if a categorical argument is a logical

24

Triangular Venn Diagram

Resources
- Duignan, Brian. "Venn Diagram." *Encyclopædia Britannica*, Encyclopædia Britannica, Inc., 22 May 2014, www.britannica.com/topic/Venn-diagram.
- "Find and Share Research." ResearchGate, www.researchgate.net/.
- "John Venn." *Biography.com*, A&E Networks Television, 15 May 2019, www.biography.com/scientist/john-venn.
- Carroll, Jeremy. December 2005. Research Gate. Document. 8th February 2020.
- Tietz, Tabea. "SciHI Blog." 4 August 2015. *John Venn and the Venn Diagram.* Document. 7 Feburary 2020

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