SET RELATIONSHIPS: D.I.C.E.S.

Dr. Stan Hartzler Archer City High School

Disjoint Probability: "mutually exclusive events"		$A \cap B = \emptyset$
Intersecting		$A \cap B \neq \emptyset$
Complementary Probability: "complementary events"	A B	$A \cup B = U$ $A \cap B = \emptyset$
Equal	A B	
Subset	AB	B ⊆ A

Core Concepts in Mathematics

Per music educators, music has a few core elements -- tone, pitch, timbre, and harmony, perhaps. By contrast, a global description of music might be "that which asks and answers questions with sound."

A global description of mathematics might begin with mathematics being the study of invariance, with number and form as basic elements. Core elements or concepts comprise a somewhat larger list, but the following list is stingy. Other ideas are embodiments of these concepts.

- 1. order
- 2. number
- 3. set
- 4. function

- 6. classification/relationship
- 7. fraction/ratio
- 8. limit
- 9. operation
- 5. properties of operations and relations