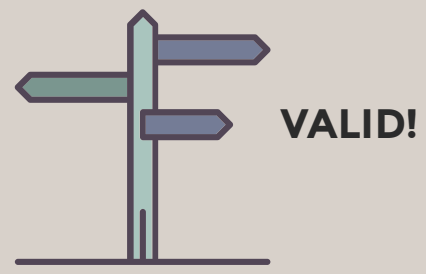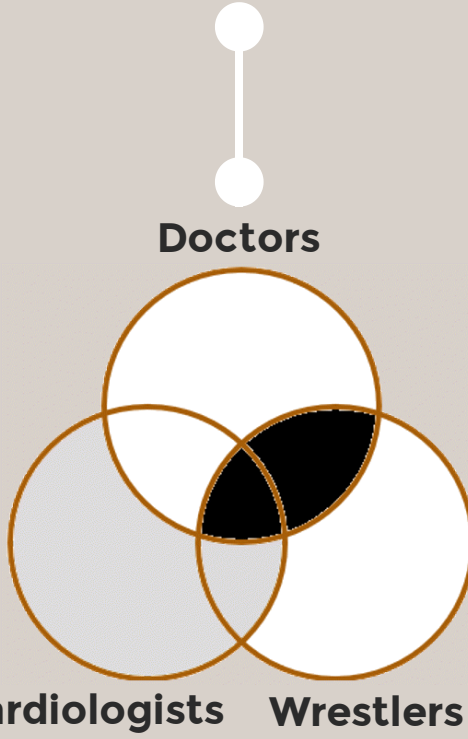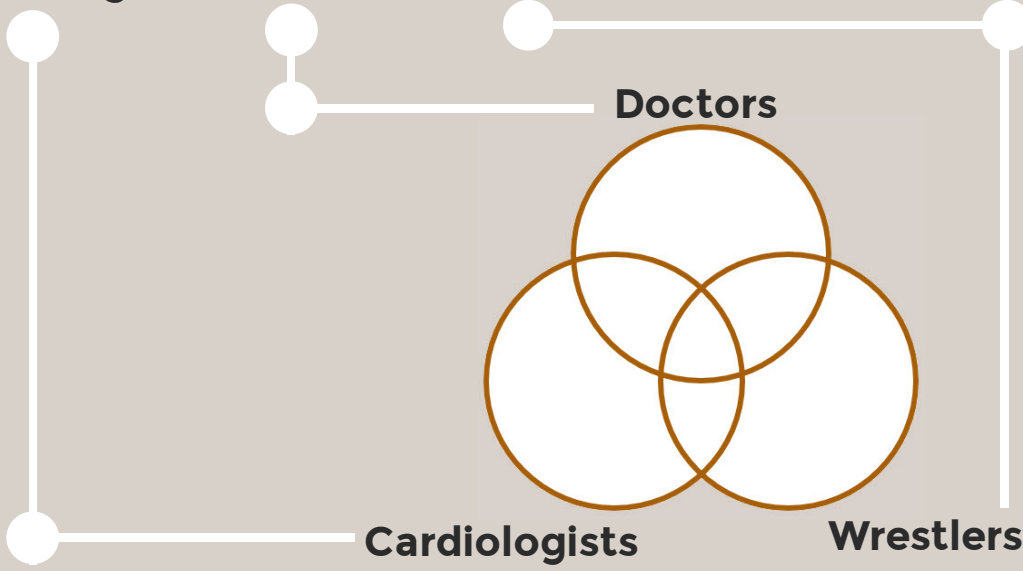# Wrestling with Venn Diagrams

No doctors are professional wrestlers.

All cardiologists are doctors.

So, no cardiologists are professional wrestlers.

Cardiologists   Doctors   Wrestlers

Doctors

Cardiologists   Wrestlers

Doctors

VALID!

Cardiologists   Wrestlers

Categorical Statement
makes a claim about the relationship between two or more categories

Standard Form
All S are P.
No S are P.
Some S are P.
Some S are not P.

FOUR BASIC PARTS

names a class and serves as the grammatical subject

SUBJECT

QUANTIFIERS

PREDICATE

COPULA

begins with
all, no, or some

names a class and serves as the
subject compliment

linking verb; form of
the verb to be

SIX STEPS

Step 1: Translate all statements into standard form

Step 2: Draw three circles with two for the conclusion at the bottom

Step 3: Use shading to represent the information from the *all* or *no* statements; use "X" in *some* statements

Step 4: Diagram the two premises

Step 5: When placing an "X" in a two-part area, if one area has been shaded placed the X in an unshaded area; if neither has been shaded place the X on the line separating the two parts

Step 6: If the diagram contains all of the information it is considered valid