**Purpose/Hypothesis/Variables Worksheet**

A. Look at the following situation and turn it into a formal hypothesis.

**Formal Purpose Format**: To determine …………

**Formal Hypothesis Format**: If ……… (use independent variable) then ……… (use your dependent variable).

1. Oscar and Cassandra wondered whether tennis balls bounce differently when wet.  They took two brand-new Wilson tennis balls.  One they soaked in water, and the other they kept dry.  They released both balls from 1 meter off the floor and then measured the height of the first bounce.

IV (CHANGE): WET/DRY TENNIS BALL

DV (MEASURE): THE HEIGHT OF THE FIRST BOUNCE

CV: SAME BRAND OF TENNIS BALL, 1 m DROP, WHERE THEY DROP THE BALL FROM, WHERE THE BALL BOUNCES, BRAND NEW TENNIS BALLS, THE FIRST BOUNCE HEIGHT

Purpose: **TO DETERMINE** WHETHER A WET OR DRY TENNIS BALL WILL BOUNCE HIGHER

Hypothesis: **IF** THE TENNIS BALL IS WET **THEN** THE BALL WON’T BOUNCE AS HIGH

1. Mark and Lily wanted to test the cleaning power of 4 different dish soaps.  They poured 5 mL of each soap into 5 equally greasy dishes, and then wiped them with a new sponge and then rinsed with water for 10 seconds.  Then, they looked at the amount of grease that was left on each dish.

IV (CHANGE): THE TYPE OF DISH SOAP

DV (MEASURE): THE AMOUNT OF GREASE LEFT ON EACH DISH (THE CLEANING POWER)

CV: 5 mL DISH SOAP, 10 s RINSE, NEW SPONGE, SAME WATER TEMPERATURE, PERSON WASHING THE DISHES, AMOUNT OF GREASE

Purpose: **TO DETERMINE** THE CLEANING POWER OF 4 DIFFERENT DISH SOAPS

Hypothesis: **IF** WE USE DAWN **THEN** THERE WILL BE LESS GREASE ON THE DISHES

You TRY!!!!!

3. Chocolates may cause pimples.

I.V:

D. V:

C.V:

Purpose:

Hypothesis: