Name:	Date: Period:
Identify the I	Experimental Design Variables
What is a <u>Control Variable?</u> Also called a constant.	
Do all experiments have a <u>con</u>	trol set up?
increase the productivity of each and assigns each group supposed to carry Legos drink while they work. Group an hour, Sheldon counts by	s created a special serum that will of ants. He creates two groups of 50 ants group the same task (in this case, they're is). Group A is given the special serum to bup B is not given the special serum. After how many Legos each group has moved. It is and Group B moved 85 Legos.
Identify the:  1. Independent Variable:	Group A Group B
2. Dependent Variable :	How many Ants?
3. List 2 Constants:	Was the special serum effective at making the ants more productive? YES / NO/Not enough data
His friend Sheldon to get rid of the black so left lens of his glass days of "treatment"	tices that his glasses are covered in a <b>strange black slime</b> . tells him it is some of his ant serum and that tomato juice will slime. Leonard decides to check this this out by spraying the ses with <b>tomato juice</b> and the <b>right lens</b> with <b>water</b> . After 3 " <b>there is no change in the appearance</b> of the black slime on nard is tired of running into things because he can't see.
Identify the:	HAVE. HAVE
1. Independent Variable :	Which lens?
2. Dependent Variable :	What was the slime sprayed with?  Did the Slime go away after 3 days?
	Did tomato juice work to remove the black slime/ant serum? YES / NO/Not enough data

3. Howard believes that rats exposed to 100% oxygen will become extra strong. He decides to perform this experiment by placing 10 mice (group X) in a hyperbaric oxygen chamber for 5 hours. He compared these 10 mice to another 10 (group Z) mice that had not been exposed. His test consisted of a heavy block of wood that blocked the rat food. He found that 8 out of 10 of the mice receiving 100% oxygen were able to push the block away. 7 out of 10 of the other mice were able to do the same.



Ident	ify the:				
3.	Independent Variable :	Group?			
4. —— 5.	Dependent Variable :  List 3 Constants :	How many mice?  Exposed to Oxygen? (Y/N)  How many pushed the blocks?			
		Did 100% oxygen help the mice become str	ronger?YES / NC	O/Not enough dat	:а



4. Raj was told that a certain **itching powder** was the newest best thing on the market, it even **claims to cause 50% longer lasting itches**. Interested in this product, he buys the itching powder and **compares** it to his **old itching powder**. One test subject (**Howard**) is sprinkled with the **old itching powder**, and another test subject (**Leonard**) was sprinkled with the **Experimental itching powder**. **Howard** reported having itches for **30 minutes**. **Leonard** reported to have itches for **40 minutes**.

Identify the:	e liches for 40 minutes.
6. Independent Variable :  7. Dependent Variable :	Test Subject's Name:  Type of Itching Powder:  Time of itching:
	Does the experimental inching powder last 50% longer? YES / NO Explain: