Identify the Experimental Design Variables - PAP

What is a <u>Control Variable?</u> Also called a constant.	
Do all experiments have a <u>con</u>	trol set up?
the BIG BANG BANG bank while they work. Grean hour, Sheldon counts	EMS: as created a special serum that will of ants. He creates two groups of 50 ants group the same task (in this case, they're a). Group A is given the special serum to oup B is not given the special serum. After how many Legos each group has moved. as and Group B moved 85 Legos.
Identify the: 1. Independent Variable :	Group A Group B
2. Dependent Variable :	How many Ants? What did they drink?
3. List 2 Constants:	How many Legos moved? Was the special serum effective at making the ants more productive? YES / NO/Not enough data
His friend Sheldon get rid of the black left lens of his glas days of "treatment	tices that his glasses are covered in a strange black slime . 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 tomato juice and the right lens with water . After 3 " there is no change in the appearance of the black slime on nard is tired of running into things because he can't see.
Identify the:	HANE
1. Independent Variable :	Which lens?
2. Dependent Variable :	bid 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.



Iden	tify the:			
3.	Independent Variable :	Group?	50	
4.	Dependent Variable :	How many mice?		
5. 	List 3 Constants :	How many pushed the blocks?)/Not enough da



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:

- 6. Independent Variable :
- 7. Dependent Variable :

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Test Subject's Name:		
Type of Itching Powder:		
Time of itching:		
Does the experimental inching Explain:	g powder last 50% longer?	YES / NO