Name	:1
	Determining Variables 1
1.	Samantha and Judy wanted to determine which mouse was the fastest. They choose to use Julius and Rosey, who were from the same litter of hamsters to determine which was the fastest. They started them at the same place and let them run to the end, and recorded their time.
	a. What is the independent variable?
	b. What is the dependent variable?
2.	Lee and Greg wanted to test 8 different foods to determine if there was starch in them. They put the food in the test tubes and added iodine, which will turn food purple - black if it contains starch. They added three drops of iodine to each tube and recorded their results.
	a. What is the independent variable?
	b. What is the dependent variable?
3.	Lawrence and Ty decided to go fishing. They wanted to know which bait worked the best. Wal-mart brand artificial bait or live worms. They decided to fish at the same location and see how many fish they caught.
	a. What is the independent variable?
	b. What is the dependent variable?
4.	Sara and Krystn wanted to know which type of gasoline allowed their new Ford Hybrid Escape to get better mileage. They choose to use Exxon Premium and Sav-Way Premium. They filled up the tank and drove to Hwy 385 and rode to Target in Simpsonville and back. When they got back they filled up the tank up to see how much they used. When the tank was empty they repeated the same experiment with the other gas.
	a. What is the independent variable?
	b. What is the dependent variable?

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5. Jeffery and Herbert wanted to determine how much hamsters eat each day. They decided to use the hamsters Rosey and Peanut Butter and look at how much food they ate over a weeks period. Each of the seven days they would put in 5 grams of food at 7:00 am in the morning and find the mass that was left at 5:00 pm at night. The following is the amount they ate from the difference from the morning and evening results.

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Rosey	3.0 g	2.2 g	4.0 g	3.2 g	2.8 g	3.0 g	4.2 g
Peanut Butter	2.2 g	4.1 g	3.6 g	3.8 g	3 g	2.8 g	2.5 g

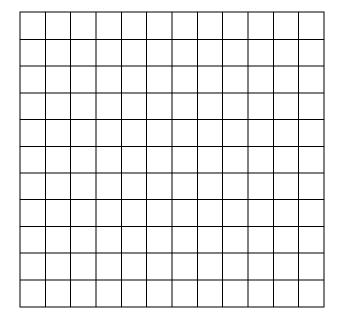
a.	What was Rosey	's average that she ate?	

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b.	what was	Peanut Butte	er's average	that she ate?

C.	What is the independent variable?	
	What is the independent variable:	

d.	What is the dependent variable?	
d.	What is the dependent variable?	

e. Please create a line graph of the food that the hamsters ate.



f.	What would be a possible hypothesis for this experiment?	

g.	Which hamster has the greatest mass?	(Think)	
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