

Name: _____ Date: _____ Per: _____

Experimental Design Ditto

Directions: Read through each example experiment and answer the questions that follow

1. A group of science teachers at Samoset decided to see if textbooks were really necessary to teach science. Two of Mrs. Monnier's classes were given textbooks as usual, and two of her classes got no books. She did the same labs, gave the same tests, and the same lessons. At the end of the school year, the final exam results were compared.

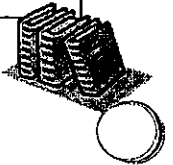
Control Group: _____

Experimental Group:

Independent Variable:

3 Control Factors:

1. _____
2. _____
3. _____



2. Swimsuit manufacturers designed a new bodysuit that they believe will cut down on water resistance, and result in faster times. On Mondays, Wednesdays, and Fridays, the swimmers wore their regular bathing suits for practice. On Tuesdays, Thursdays, and Saturdays, they wore the new bodysuits. Their times were compared. They swam their usual races, with their usual strokes, in their usually pool, at the usual time.

Control Group: _____

Experimental Group:

Independent Variable:

3 Control Factors:

4. _____
5. _____
6. _____



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3. Dr. Tomato developed a new brand of fertilizer that he believed would create bigger, juicier, better tasting tomatoes. He divided his land in half. On one half he used his old kind of fertilizer; on the other half he used the new fertilizer. He then planted the usual plants, and watered them equally.

Control Group: _____

Experimental Group:

Independent Variable:

3 Control Factors:

7. _____

8. _____

9. _____



4. Chef Cheesecake wants to test a new improved cheesecake. He makes his usual recipe with cream cheese, and then he makes another one with cheddar cheese. He calls in twenty (20) of his regular customers and gives them a taste test. He baked the cakes for the same amount of time and used the same type of pans that he always does.

Control Group: _____

Experimental Group:

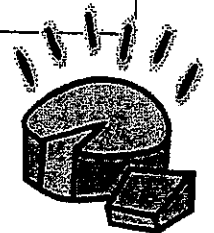
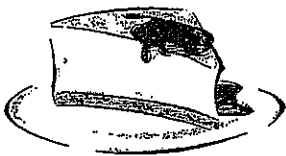
Independent Variable:

3 Control Factors:

10. _____

11. _____

12. _____



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5. Sam Painter wanted to test a new brand of paint called "Flake No More." He used his house and painted half of the house with "Flake No More," and the other half with his usual brand called "Really Rotten No Good Paint." He observed the paint for the next three years. (There are no control factors stated in this one, but you can figure them out!)

Control Group: _____

Experimental Group:

Independent Variable:

3 Control Factors:

13. _____

14. _____

15. _____

