Fair Testing Vocabulary Worksheet

Part 1: Vocabulary Definitions

Match the words in **Column A** with the correct definitions in **Column B**.

Column A	Column B
1. Fair Testing	A. The factor that is deliberately changed in an experiment to observe its effects.
2. Controlled Variables	B. The factors that are kept the same throughout an experiment to ensure the test is fair.
3. Independent Variable	C. Changing one variable, keeping all the others the same and measuring or observing what happens.
4. Dependent Variable	D. The factor that is measured in the experiment to see how it changes in response to the independent variable.
5. Reliability	E. Making sure that a test is consistent and can be repeated with the same results.
6. Variables	F. All factors in an experiment that can change or vary, but only one should be tested at a time to ensure fairness.

Part 2: Fill in the Blanks

Complete the sentences using the vocabulary words above.

1. To make sure that the experiment is _____, we need to change only one factor at a time.
2. The _____ is what we measure in an experiment to see if the independent variable has an effect.
3. A fair test means controlling all other _____ so they don't affect the results.
4. The _____ is the factor that is deliberately changed to test its effect.
5. It is good idea to repeat the investigation to ensure the results are _____.

Part 3: True or False

Select **True** or **False** for each statement.

1. The independent variable is what we measure in an experiment. _____
2. The controlled variables are the ones that we change. _____
3. Fair testing involves changing many variables at once to speed up the process. _____
4. Reliability in an experiment means that the results can be repeated consistently. _____

LIVEWORKSHEETS