

Obi-Wan Adobe Quiz Answers

Circle the right answer.

1. Something that changes during an experiment is known as a _____.
A. constant
B. variable
C. control
2. The amount of one part compared to the whole in a mixture or solution is known as the _____.
A. mass
B. weight
C. concentration
3. A _____ is a combination of two or more pure substances in which you can still see the different parts.
A. mixture
B. combo
C. solution
4. Which of the following is an example of a solution?
A. adobe bricks
B. salt in water
C. dirt in water
5. **True or False** Adobe bricks are still used to build homes and other buildings.
6. **True or False** A control is something that changes in an experiment.
7. **True or False** Engineers must to know the difference between a mixture and a solution.
8. **True or False** Engineers use experiments to improve the design of products, such as concrete and toys.
9. Adobe bricks are made of water, sand, soil and straw. How would you design an experiment to determine what concentration of water makes the strongest bricks?

Example ideal answer: I would make four different adobe bricks that were exactly the same except for the amount of water. Each brick would have a progressively higher amount of water, which I would measure and record. After drying, I would test each brick's strength by dropping them from different heights. The best concentration of water would correlate to the brick that withstood the highest fall.

A good answer would include these points: Water as a variable (stated or described), description of a testing method, and description of how to interpret results.