Experimental Design for Blood Spatter Experiment

Problem: The blood found at the crime scene was dropped at a 90 degree angle. At what height was the blood dropped if it fell at a 90 degree angle?

Hypothesis: If the blood is dropped from an increasingly higher distance, then the blood spatter will increase in diameter.

Procedure:

1. Ring stand is placed on edge of table

2. Clamp is placed on base of ring stand.

3. white paper is placed on ground below the clamp

4. Pipette is filled with simulated blood.

5. Pipette is placed in the clamp at incremental heights of 92, 97, 102, 107, 112, 117, 122, 127 and 132 centimeters, blood dropped from each height twice.

6. Measure diameter of the blood spatters.

7. Record data on height determining blood spatter size.

Data: The graph has a weak positive trend with a few outliers.

Conclusions: Blood spatter diameter is affected positively by the height that it is dropped from.