Blood Spatter Analysis

1. How are the blood drops at different heights alike? How do they differ? 
   As the height increases, the diameter of the blood drops _________________.

2. How do the large volume and multiple drop blood patterns compare? How do they differ?

3. What type of event could have produced the following patterns?

   ![Pattern A](image1.png) ![Pattern B](image2.png)

4. Given the following blood drop diameters, from what height (approximately) did they fall?
   a. 8mm
   b. 14mm
   c. 18mm

6. Explain how the surface affects blood spatter? What types of surfaces cause more spatter? What causes less spatter?

7. What differences did you see in the blood spatter that was dropped on rough and smooth surfaces?

8. Draw and describe the size and shape of a droplet of blood that:
   a. has fallen straight down from a height of four feet
b. has fallen from a running person from a height of four feet

9. Label each of the following as passive, transfer, or projected.

10. Draw an arrow indicating the direction of travel.

11. Classify the following as high, medium, or low velocity spatter.
As a bloodstain pattern analyst you have been called to the following scene by the police investigator.

The police were called to the following scene when the apartment caretaker found the following blood patterns in the building and within suite 203. The resident in suite 203 cannot be located and it is not known who the victim is, or what the person's injuries might be.

**Staircase**

_The first photograph is going up to the second floor from the apartment entrance foyer, then there is a turn to the right passing the next photo._

A. Circle and label at least two stains in the picture as impact, transfer, or passive stains. Provide one reason / possible source for the stain.

B. Do you think the attack occurred here? Explain why or why not.
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**Upstairs Hallway - Suite 201**

*You continue up the stairs and then enter into the second floor hallway at the door marked "Exit" and then turn to the right and walk towards suite 203, passing blood stains on the door and frame to suite 201*
A. Circle and label at least two stains in the picture as impact, transfer, or passive stains. Provide one reason / possible source for the stain.

B. Do you think the attack occurred here? Explain why or why not.

**Inside Suite 203**

*You then enter suite 203 and observe blood stains on the back of the door, the wall to the left of the door and on the walls and bedroom door frame above the stove.*
These are the blood stains on the wall to the right of the door.

A. Circle and label at least two stains in the picture as impact, transfer, or passive stains. Provide one reason / possible source for the stain.

B. Do you think the attack occurred here? Explain why or why not.
These are the blood stains above the stove around the bedroom door entrance.

A. Circle and label at least two stains in the picture as impact, transfer, or passive stains. Provide one reason / possible source for the stain.

B. Do you think the attack occurred here? Explain why or why not.

12. Where was the victim attacked? Explain your answer.
13. What was the victim's position during the attack? Explain your answer.

14. What type of force created the bloodstains? Explain your answer.

15. Where/what do you think the victim’s injuries might be? Explain your answer.