Blood Spatter Reading Questions

Name ___________________________________

1. Explain the two key properties of blood that allow it to be a key piece of evidence.
2. What three things determine the shape and size of a puddle when water is poured out onto a surface (like the floor)?
3. What determines how quickly blood dries?
4. What is Skeletonized blood?
5. What can dried blood tell an expert?
6. What can bits of tissue and bone in blood spatter tell an analyst?
7. What type of weapons (and explain why) are consistent with;
   a. low velocity spatter
   b. medium velocity spatter
   c. high velocity spatter
8. Transfer of blood is typically classified as what type of spatter?
9. What can a void tell a spatter analyst?
10. What are overlapping spatters useful for?
11. Explain stippling and internal muzzle staining.
12. What is terminal velocity?
13. How does a blood drop reach its terminal velocity when falling?
14. Do drop sizes affect this velocity?
15. Increasing velocity/height also increases what three things about the spatter?
16. Briefly list and explain the four phases of impact:
17. An individual blood droplet can give an investigator what useful information?
18. What does "stringing" method tell an analyst?
19. What does an analyst have to measure to determine the angle of blood spatter and the position of the victim?
20. Draw all the angles of impact of blood droplets.
   
<table>
<thead>
<tr>
<th>90°</th>
<th>60°</th>
<th>20°</th>
</tr>
</thead>
<tbody>
<tr>
<td>70°</td>
<td>40°</td>
<td>10°</td>
</tr>
</tbody>
</table>

21. There are only 21 trained blood spatter professionals certified in the United States - How does one become a blood stain analysis expert?
22. Note 3 key dates in blood spatter history and what those dates mean to evidence today.
23. Why are blood spatter specialists usually called to the scene?
24. What does this do to the case against someone?
25. Describe how poorly handled blood evidence in the Azaria Chamberlain case caused police to suspect the parents of murdering their baby daughter.