**Ch 3 Phys Evidence review**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per\_\_\_\_\_\_\_\_\_\_\_

1. For each type of evidence listed below, indicate whether the item is more likely to possess class or individual characteristics and explain your answers:
   1. An impression from a new automobile tire

* 1. A fingerprint
  2. A spent bullet cartridge
  3. A mass-produced synthetic fiber
  4. Pieces of a shredded document
  5. Commercial potting soil
  6. Skin and hair scrapings
  7. Fragments of a multi-layer custom automobile paint

1. Blood types and Rh factors: In addition to being grouped into four types, human blood is grouped by its Rhesus (Rh) factor. Consider the figures below, which show the distributions of these groups for Americans.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Blood Type** | **Rh+** | **Rh-** | **O** | **A** | **B** | **AB** |
| **Rh+** | 84% | 16% | 42% | 43% | 11% | 4% |

Choose 1 American at random. Find the probability that the person has Rh+ given that the person has type AB.

1. Name the Forensic Databases and describe the purpose of each.
2. List six types of physical evidence derived from human or other animal sources that commonly are found at crime scenes.
3. List six types of physical evidence that from non-human or non-animal sources commonly found at crime scenes.
4. List and define the two methods used by forensic scientists when examining physical evidence.
5. To permit positive identification, testing procedures used by a forensic scientist must meet what two conditions?
6. Describe the two steps in the process of comparison. What question does each step attempt to answer?
7. Define individual and class characteristics. Give an example of each.
8. Define the product rule and explain how it can be used to determine whether two blood samples come from the same source.
9. What is the greatest weakness of class evidence? List two factors that contribute to this weakness.
10. What is the value of class evidence? Why is this important in making a case to a jury?