***Inside the FBI Crime Lab (The History Channel)***

1. The *current* FBI crime lab is located in .
2. According to the FBI Lab Director the most important quality of the lab is to ensure that the evidence is and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ free.
3. The nationʼs first crime lab was located at ­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and was opened in 1802. The first person to head the FBI was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. One of the first cases investigated by the FBI involved the Lindbergh Baby kidnapping. Investigators used \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to identify a suspect and help get a conviction.
5. In 1936, the FBI crime lab was among the first labs to test the polygraph, also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. The FBI created a unit of serology which through chemical testing tests for .
7. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ unit examines guns, bullets, cartridges, and other items.
8. When matching a bullet to a gun, examiners examine grooves of the gun. They enable the identification with great precision. Every gun will leave its own \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ microscopic marks.
9. An improvised explosive device (IED) is often referred as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by forensic investigators.
10. The largest case tackled by the FBI explosive unit was the crash of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ over Lockerbie, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in 1988. It spanned approximately \_\_\_\_\_\_\_\_\_\_square miles.
11. In the 19th Century, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system was being used as an identification system until the William West case proved it to be flawed.
12. Currently, there are approximately 80 processes used today to develop latent fingerprints. During the 1970’s, the use of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ began because they protect the latent fingerprints from destruction during analysis.
13. DNA is the **biological** equivalent to a personʼs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. In the 1980ʼs the FBI developed DNA technology to solve crimes. There are two types of DNA testing used at the FBI; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
15. The trace evidence unit looks for the presence of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
16. One of the busiest response units of the FBI is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_which is responsible for responding to potential exposure to dangerous material (such as anthrax or biological warfare).

**ANSWER KEY**

1. The FBI crime lab is located in Quantico, Virginia.
2. According to the FBI Lab Director the most important quality of the lab is to ensure that the evidence is secure and contamination free.
3. The nationʼs first crime lab was at Northwestern University. In 1802, the first FBI crime lab was opened. The first person to head the FBI was J. Edgar Hoover.
4. In 1936 the FBI crime lab was among the first labs to test the polygraph.
5. The FBI created a unit of serology. Through chemical test it could test for human blood types.
6. In the mid 1970ʼs the crime lab became a crime fighting tool. It began to realize that physical evidence is far more accurate than any eyewitness description.
7. The FBI was finally accredited in 1997 when a larger lab was built in Virginia.
8. The firearms & tool marks unit examines firearms, bullets, cartridges, and other items.
9. When matching a bullet to a gun, examiners examine grooves of the gun. The grooves enable the indetification with great precision. Every gun will leave its own unique microscopic mark.
10. The FBI has the largest working firearm forensic collection in the USA.
11. The basic component of a bomb is to have some type of energetic material which provides the explosive force.
12. The largest case tackled by the FBI explosive unit was the crash of Pan-Am 103 Scotland in 1988.
13. The explosive unit is more important than ever because of terrorism.
14. In the 19th Century the Bertillon system was being used as an identification system until the William West case proved it to be flawed.
15. In 1924 the first fingerprint files were created. In 1953 fingerprints were discovered at most crimes scene and it started being used to support criminal matters. Today there are 80 processes to develop latent prints from cyanoacrylate fuming to alternate light sources.
16. DNA is the biological equivalent to a personʼs fingerprint.
17. .In the 1980ʼs the FBI developed DNA technology to solve crimes. There are two types of DNA testing used at the FBI; nucleus and mitochondrial.
18. The National DNA index system comprised of 170 crime labs sharing DNA information.
19. The FBI relies on three forms of instrumentation: spectrophotometry, chromatic instruments, and mass spectrometry.
20. The Hazardous Materials Response Unit is the highest response unit used.