When a person sees a lightning strike and hears thunder 20 seconds later, the lightning is approximately **4 miles** away from the person.

Lightning is a natural phenomenon that occurs when there is an imbalance between the electrical charges in the atmosphere and the ground. When the electrical charges become large enough, they create a spark that travels through the air. This spark is what we see as lightning. Lightning can occur within a single cloud, between two clouds, or between a cloud and the ground **1**.

Thunder is the sound created by the rapid expansion of air around the lightning bolt. Thunderstorms sound up to 10 miles away from the lightning strike **2**. Calculate by the "flash-to-bang" method can be used. It involves counting the number of seconds between, hearing, and glimpsing, dividing that number by 5 to get the distance in miles **1**. In this case, since the person hears the thunder 20 seconds after seeing the lightning, the lightning is approximately 4 miles away.

It is important to remember that lightning can be dangerous and cause damage to property and people. Lightning <u>strikes the Earth's surface about 100 times per second</u>. Lightning can cause fires, power outages, and damage buildings and other structures. It can also be deadly. <u>According to the National Weather</u> <u>Service, lightning kills an average of 27 annually.</u>

In conclusion, when a person sees a lightning strike and hears thunder 20 seconds later, the lightning is approximately 4 miles away from the person. It is important to remember that lightning can be dangerous and cause property damage and to take appropriate precautions during thunderstorms.