

The speed of sound in air is 331 m/s. If you see a lightning flash and 8 seconds later, hear the thunder, how far was the lightning strike?

Solution:

Distance passed by a sound is:

$$S = v * t = 331 * 8 = 2648m$$

The speed of light is much more than sound's speed, therefore time of transiting by light can to be considered.

Answer:

2648m