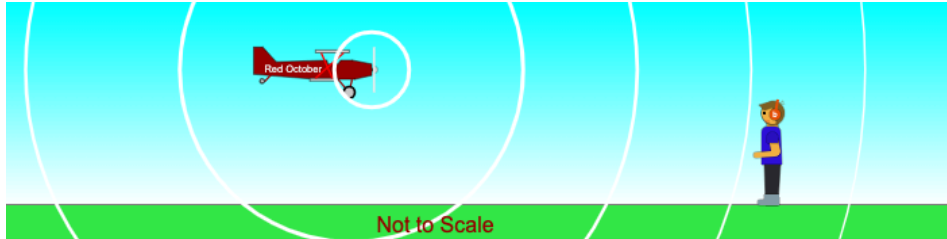


Doppler Frequencies

Step 1: Below is a picture of your plane moving towards you. Next to this picture give the temperature of the air, the frequency of the plane at rest and the velocity the plane will have in this situation.



Step 2: Calculate the speed of sound at the fairgrounds based on the temperature you recorded above. Show your work

Step 3: Use the Doppler formula to find the frequency of the sound you hear as the plane is approaching you. Show all your work neatly below.

Step 4: Use the Doppler formula to find the frequency of the sound you hear as the plane is moving away from you. Show your work below. Enter your answers into your program to check that you did everything properly.