
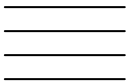


Map Reading
USING KENTUCKY AERONAUTICAL CHARTS

Group Names: _____

Lines of Longitude –  All the same length vertically around the globe.

Lines of Latitude -  Circles of varying radii that circle the globe horizontally. Longest one is at Equator.

These coordinates are listed along the top (longitude) and side (latitude) of your map.

1) Give the latitude and longitude of the Cincinnati Airport (CVG).

2) Give the latitude and longitude of the Louisville Airport.

***One nautical mile can be measured by measuring 1' on a line of longitude.

3) Use your ruler to measure the distance from Cincinnati to Louisville, then line up that distance along a line of longitude and measure how many nautical miles you will have to fly (same as number of minutes).

***Using a protractor, one can determine the course you must fly from Cincinnati to Louisville. Drawing a line (lightly) between the two airports you can measure the angle made between your course and a line of longitude to determine what your course should be.

4) a) What is the course required to fly from Cincinnati to Louisville?

b) What would be your course on a return trip?

5) Find the distance and course for a flight from Bowling Green to Elizabethtown.

6) Find the distance and course for a flight from Lexington to Louisville.

#7-9) Find the time it would take to make each trip at an average speed of 90 knots:

7) Cincinnati – Louisville.

8) Bowling Green - Elizabethtown.

9) Lexington - Louisville.

***The top of the map shows a closer view of some major airports. As you approach a runway for takeoff you will see a large two digit number on the runway. This represents the direction you are facing (if you add a zero onto the end). 30 represents a course of 300 and 09 represents a course of 90.

*** Other information provided. The altitude (in feet) of the airport is listed next to it's name. Each runway has its length written next to it.

10) Complete the table for Cincinnati's runways.

Direction	Opposite direction	Runway length

What's the altitude at this airport?

11) Complete the table for Louisville's runways.

Direction	Opposite direction	Runway length

What's the altitude at this airport?