

## Globe Lesson 9 - Around the World - Grade 6+

You will travel by jet airliner on a trip around the world. Each part of your trip is called a leg. Each leg will be between fuel stops. You will be given two choices of where you can stop on each leg of the trip.

You will be give the latitude and longitude of the two choices where you can stop. You will identify and mark these possible stops on your globe.

You will determine the distance that each possible stop is from the place you are leaving. One choice is usually too far and too many miles to stay within the fuel capacity of your aircraft. Choose the shorter distance.

You must fly within the range of your fuel capacity. Your plane has just enough fuel to fly 4,000 miles. You must travel less than 4,000 mile on each leg of the trip. You may meet bad weather, which causes you to use more fuel.

The jet liner travels at the speed shown on the outer ring of your Horizon Ring globe, 600 miles per hour. Sometimes, you will be asked how long it takes to travel a leg of the trip.

Use the Horizon Ring to draw and measure the better route for each leg. When you have finished you should have the complete route plotted around the world.

### Start in Chicago

Remember how to draw a straight line on a globe? Put your thumbs on each location. Turn the globe until your thumbs touch the Horizon Ring. Draw a line using the Horizon Ring as a straight edge that connects the locations.

1. You will start in Chicago, Illinois.  $42^{\circ}$  N,  $88^{\circ}$  W. Your first possible stops are  $61^{\circ}$  N,  $150^{\circ}$  W or  $21^{\circ}$  N,  $158^{\circ}$  W. Locate both choices for the first leg of your trip. Write the name of the cities in the blank space below. Place a check in front of the better choice. Use the Horizon Ring to draw a straight line between Chicago and this location.

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2. About how many miles did you fly on this leg?

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3. Your next stop will be at one of these locations:  $31^{\circ}$  N,  $121^{\circ}$  E or  $36^{\circ}$  N,  $140^{\circ}$  E. Locate both choices for the next leg of your trip. Place a check in front of the better choice. Again, use the Horizon Ring to draw the great circle route between these locations.

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4. What important meridian did you cross?

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**Continue Around the World**

5. Your next two possible destinations are 19° N, 73° E or 17° N, 96° E. Locate both choices for the next leg of your trip. Place a check in front of the better choice. Draw a line to this location.

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6. What direction(s) did you fly on this leg?

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7. Your next two possible landing places are 25° N, 47° E or 40° N, 33° E. Locate both choices for the next leg of your trip. Place a check in front of the better choice. Draw a line to this location.

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8. Your next two possible stopovers are 53° N, 6° W or 64° N, 22° W. Locate both choices for the next leg of your trip. Place a check in front of the better choice. Draw a line to this location.

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9. From this point you will fly home. What direction will you be traveling in as you reach Chicago?

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