Answer Key

"Where am I?"

The latitude and longitude of a point are called its coordinates. If you know the coordinates, you can use a map to locate any point on Earth. Using the application City Zen , find out where in the world you are. Hint: Make sure you are in the select tool of City Zen. There should be a question mark in the circle. Use the Find Mode to find the following cities then write in their latitude and longitude by holding stylus down on city.

1. Omaha — Latitude: **95 ° W** — Longitude: **41 ° N**
2. Washington, D.C. — Latitude: **76 ° W** — Longitude: **38 ° N**
3. Boston — Latitude: **71 ° W** — Longitude: **42 ° N**
4. Sydney, Australia — Latitude: **150 ° E** — Longitude: **33 ° S**
5. Sea of Japan — Latitude: **131-132 ° E** — Longitude: **36-37 ° N**
6. Paris, France — Latitude: **2 ° E** — Longitude: **48 ° N**

Write the name of a city and give the latitude and longitude of that particular location.

7. City: _____ Latitude: _____ Longitude: _____
8. City: _____ Latitude: _____ Longitude: _____
9. City: _____ Latitude: _____ Longitude: _____
10. City: _____ Latitude: _____ Longitude: _____
11. City: _____ Latitude: _____ Longitude: _____
12. City: _____ Latitude: _____ Longitude: _____

Knowing latitude and longitude of locations can help you figure out the distance between two points. Using the application **Distance**, enter the latitude and longitude for two points on Earth and tap the calculate button to get the distance in miles. Round each answer to the nearest hundredth of a mile. Make sure you label your distance.

Location 1: **Omaha**				**Distance Between**
Latitude:	41° 18′N	Longitude:	95° 54′W	
Location 2: **Lincoln**				
Latitude:	40° 51′N	Longitude:	96° 45′W	**_54.17 miles___**

Location 1: **Omaha**				**Distance Between**
Latitude:	41° 18′N	Longitude:	95° 54′W	
Location 2: **St. Paul, MN**				
Latitude:	44° 53′N	Longitude:	93° 13′W	**__282.12 miles__**

Location 1: **Washington, D.C.**				**Distance Between**
Latitude:	38° 51′N	Longitude:	77° 02′W	
Location 2: **Los Angeles, CA**				
Latitude:	33° 56′N	Longitude:	118° 24′W	**_2,310.97 miles___**

Location 1: **Nairobi, Kenya**				**Distance Between**
Latitude:	1° 16′S	Longitude:	36° 48′E	
Location 2: **Mexico City, Mexico**				
Latitude:	19° 24′N	Longitude:	99° 12′W	**_9,218.42 miles_**

Location 1: **Manila, Philippines**			
Latitude:	14° 35′N	Longitude:	120° 59′E
Location 2: **Lima, Peru**			
Latitude:	12° 5′S	Longitude:	77° 03′W

Distance Between

11,223.50 miles