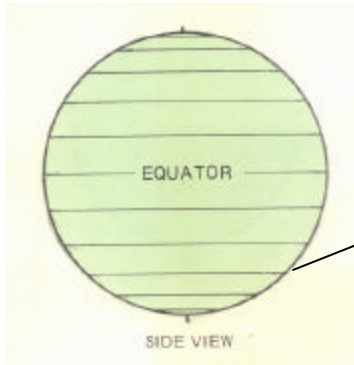
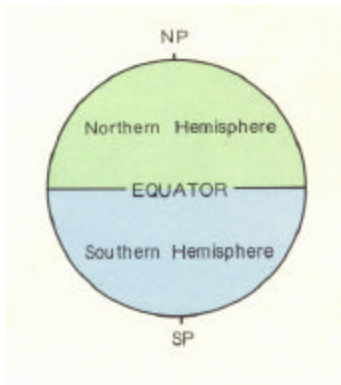


Grade 9 Geography – Unit 1 Lesson 4 Latitudes and Longitudes

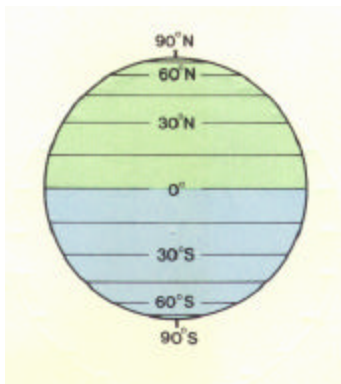


Centre line is the _____

The other lines running parallel to the equator are called _____.

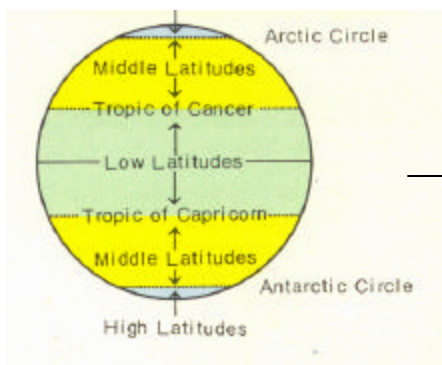


The equator is located at ____ latitude. The equator is located exactly _____ between the North Pole (NP) and the South Pole (SP). The equator _____ the world into the Northern Hemisphere and the Southern Hemisphere.



Lines of latitude are numbered from 0° at the _____ to 90° at the _____ and _____ Poles.

Each line of latitude, except the equator, must be followed by N or S to show whether it is in the Northern or Southern Hemisphere.

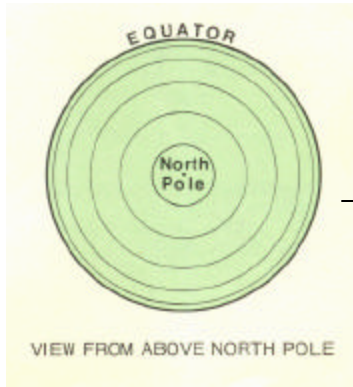


Besides the equator, there are four parallels with special names

1. _____
2. _____
3. _____
4. _____.

These four parallels divide the world into _____, _____ and _____ latitudes.

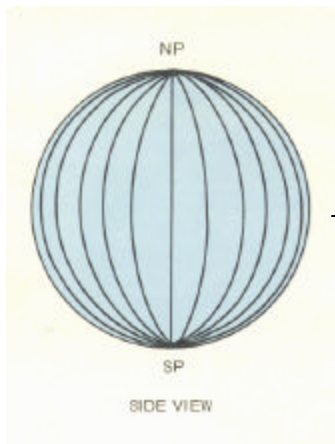
Latitudes and Longitudes...2



If viewed looking down from the North Pole, each line of latitude is a _____.

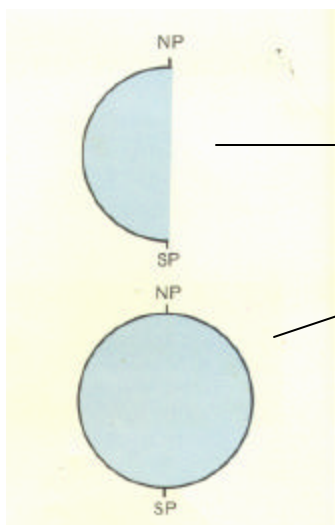
The _____ is the biggest and it is known as the Great Circle.

All the other circles are known as the _____ Circles.



The lines that run down the globe are called _____ or Lines of _____.

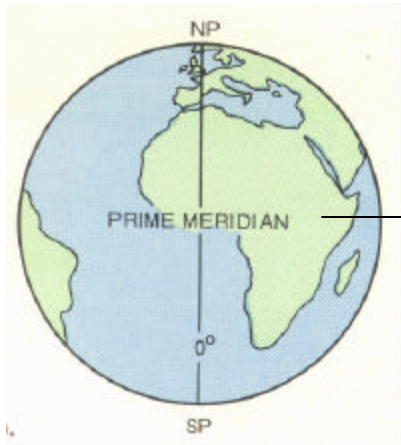
Each line of longitude runs from the North Pole to the South Pole. The distance along each line is the _____.



Each line of longitude is _____ a circle because it runs from the poles down one half of the earth only.

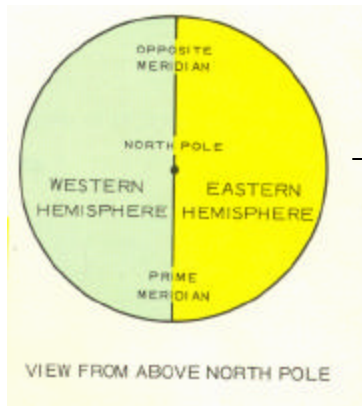
Two opposite lines of longitude together make up a full circle. Such circles, like the equator, are called _____.

Latitudes and Longitudes... 3

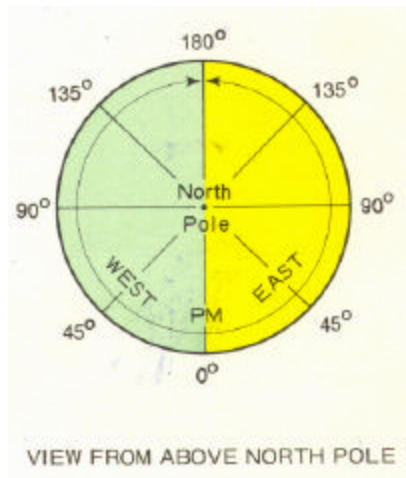


There is no real difference between one line of longitude and another.

The line of longitude chosen as 0° passes through Greenwich, England. It is called the _____.



The Prime Meridian and its opposite line of longitude make up the Great Circle that divides the earth into the _____ and _____ Hemispheres.

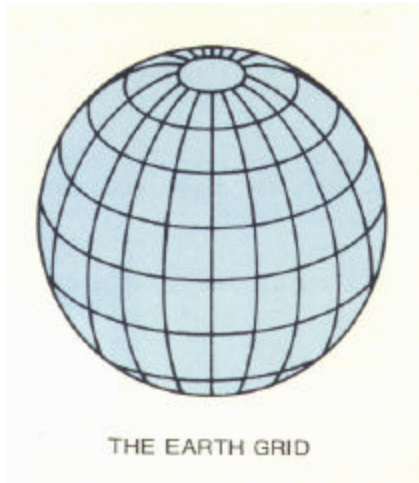


Going EAST from the Prime Meridian, the lines of longitude are numbered up to 180° . This is the Eastern Hemisphere.

Likewise going WEST from the Prime Meridian, the lines of longitude are also numbered up to 180° . This is the Western Hemisphere.

Except for 0° and 180° , each line of longitude must be followed by E or W to show whether it is in the Eastern or Western Hemisphere.

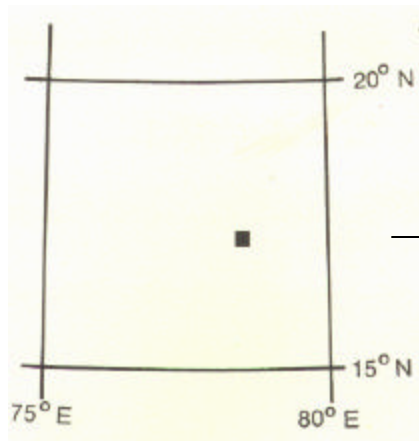
Latitudes and Longitudes...4



The network of numbered lines of latitude and longitude are called the _____.

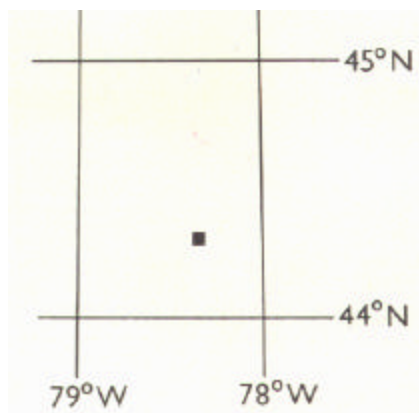
The grid makes it easy to locate any place you wish.

Note: Latitude is always given before longitude.



In this figure, the black square is about 2/5 of the way between the latitudes 15°N and 20°N. The approximate latitude is _____.

The black square is about 3/5 of the way between the longitudes of 75°E and 80°E. The approximate longitude is _____.

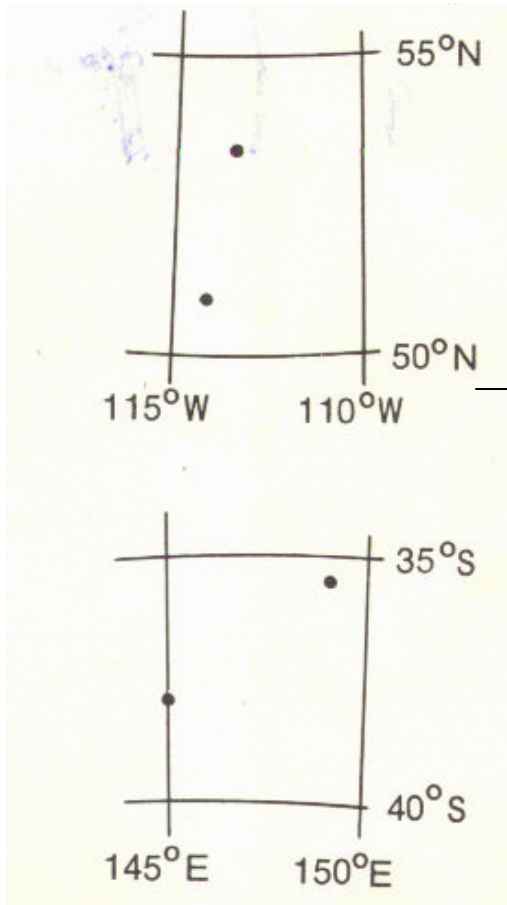


In this figure, note the difference in the scale. The distance between the lines of latitude and longitude is only one degree.

A degree of latitude or longitude can be divided into 60 minutes (Note: minutes here has nothing to do with time). The distance between latitude 44°N and 45°N is 60 minutes (written 60'). In this figure, the black square is about 1/4 between latitude 44°N and 45°N or 15'. The latitude of the square is 44°15'N.

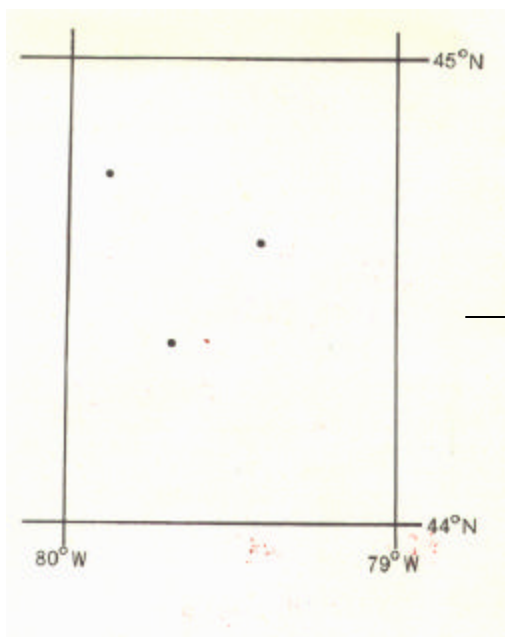
Minutes longitude is calculated the same way.

Latitudes and Longitudes...5



For practice, calculate the latitudes and longitudes in degrees only for the following four locations.

1. _____
2. _____
3. _____
4. _____



Now, determine the latitudes and longitudes in degree and minutes for the following three sites.

1. _____
2. _____
3. _____

Use a map and try to name the places that the dots represent.

1. _____
2. _____
3. _____

Grade 9 Geography - Unit 2 Lesson 3

Latitudes and Longitudes

Various Lats and Longs

Calgary, Alberta	51° 6' N	114° 1' W
Edmonton, Alberta	53° 34' N	113° 31' W
Vancouver, B.C.	49° 11' N	123° 10' W
Victoria, B.C.	48° 25' N	123° 19' W
The Pas, Manitoba	53° 58' N	101° 6' W
Winnipeg, Manitoba	49° 54' N	97° 14' W
Fredericton, N.B.	45° 52' N	66° 32' W
Flin Flon, Manitoba	54° 46' N	101° 51' W
Moncton, N.B.	46° 7' N	64° 41' W
Saint John, N.B.	45° 19' N	65° 53' W
Corner Brook, Nfld	48° 58' N	57° 57' W
Gander, Nfld	48° 57' N	54° 34' W
Goose Bay, Nfld	53° 19' N	60° 25' W
St. John's, Nfld	47° 37' N	52° 45' W
Sydney, NS	46° 10' N	60° 3' W
Truro, NS	45° 22' N	63° 16' W
Kingston, Ontario	44° 16' N	76° 30' W
London, Ontario	43° 2' N	81° 9' W
Ottawa, Ontario	45° 19' N	75° 40' W
Owen Sound, Ontario	44° 34' N	80° 55' W
Sudbury, Ontario	46° 37' N	80° 48' W
Thunder Bay, Ontario	48° 22' N	89° 19' W
Timmins, Ontario	48° 34' N	81° 22' W
Toronto, Ontario	43° 41' N	79° 38' W
Windsor, Ontario	42° 16' N	82° 58' W
Trois Rivieres, Quebec	46° 21' N	72° 35' W
Montreal, Quebec	45° 28' N	73° 45' W
Quebec City, Quebec	46° 48' N	71° 23' W
Rimouski, Quebec	48° 27' N	68° 32' W
Regina, Saskatchewan	50° 26' N	104° 40' W
Charlottetown, P.E.I.	46° 17' N	63° 8' W
Whitehorse, Yukon	60° 43' N	135° 4' W

Grade 9 Geography – Unit 1 Lesson 4
Canadian City Latitudes and Longitudes

Using a Canadian map, find the Canadian location (Answer Key)

Latitude and Longitude	Location
46° 17' N 63° 8' W	Charlottetown, P.E. I.
60° 43' N 135° 4' W	Whitehorse, Yukon
48° 22' N 89° 19' W	Thunder Bay, Ontario
48° 27' N 68° 32' W	Rimouski, Quebec
46° 10' N 60° 3' W	Sydney, Nova Scotia
49° 11' N 123° 10' W	Vancouver, B.C.
45° 19' N 75° 40' W	Ottawa, Ontario
45° 52' N 66° 32' W	Fredericton, N.B.
42° 16' N 82° 58' W	Windsor, Ontario
53° 34' N 113° 31' W	Edmonton, Alberta

Using a Canadian map, find the latitude and longitudes of these Canadian locations (Answer Key)

Location	Latitude and Longitude
Winnipeg, Manitoba	49° 54' N 97° 14' W
Victoria, B.C.	48° 25' N 123° 19' W
Kingston, Ontario	44° 16' N 76° 30' W
Toronto, Ontario	43° 41' N 79° 38' W
Gander, Nfld - Labrador	48° 57' N 54° 34' W

Grade 9 Geography - Unit 2 Lesson 3
Canadian Latitudes and Longitudes

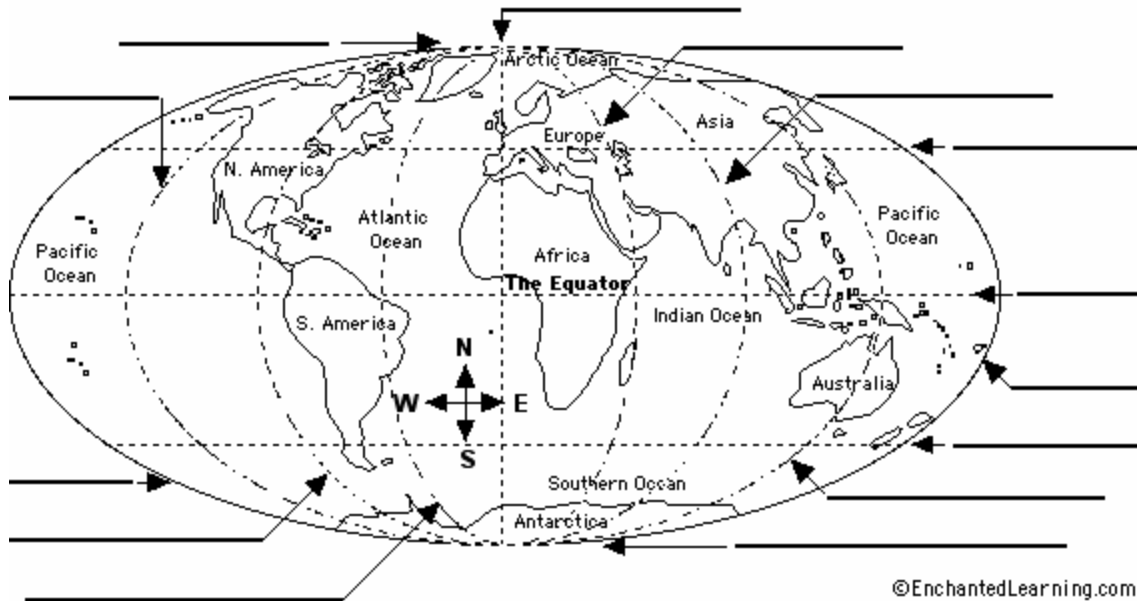
Using a Canadian map, find the Canadian location

Latitude and Longitude	Location
46° 17' N 63° 8' W	
60° 43' N 135° 4' W	
48° 22' N 89° 19' W	
48° 27' N 68° 32' W	
46° 10' N 60° 3' W	
49° 11' N 123° 10' W	
45° 19' N 75° 40' W	
45° 52' N 66° 32' W	
42° 16' N 82° 58' W	
53° 34' N 113° 31' W	

Using a Canadian map, find the latitude and longitudes of these Canadian locations

Location	Latitude and Longitude
Winnipeg, Manitoba	
Victoria, B.C.	
Kingston, Ontario	
Toronto, Ontario	
Gander, Nfld - Labrador	

Grade 9 Geography - Unit 1 – Lesson 4
Maps – Latitudes and Longitudes



Label the Latitudes and Longitudes on the world map

- 90° N
- 45° N
- 0° Latitude
- 45° S
- 90° S
- 180° W
- 135° W
- 90° W
- 45° W
- 0° Longitude
- 45° E
- 90° E
- 135° E
- 180° E

Clue – The world is 360°

Grade 9 Geography of Canada
Unit 1 – Lesson 4

Maps – Latitudes and Longitudes

Answers / Teacher Copy

