



Geography of Canada

CGC 1DI (Academic)

Time Zones

The earth rotates in a _____ direction when you look down on it from the North Pole.

This means that the sun appears to rise in the _____ and appears to set in the _____ .

It takes approximately _____ hours for one rotation of the earth. There are _____ degrees in the circumference of the earth, therefore, the earth rotates through _____ degrees in one hour.

As a result there are _____ one hour time zones spaced out around the earth, each covering about _____ degrees.

The equatorial circumference of the planet is approximately _____ kilometres, which means that a person standing on the equator is travelling at about _____ km/hr!

(No...the earth will not stop spinning and hurl you!!)

You can tell that it is 12:00 noon at 0° latitude and 0° longitude in the spring and fall because

If it is 12:00 noon at 0° latitude and 0° longitude, what time is it at each of the following locations?

Latitude	Longitude	Local Time
0°	90° E	
0°	90° W	
0°	180°	
30° N	0°	
60° N	0°	



As a result, lines of longitude are also known as _____ or _____

_____. Time lines do not always follow lines of longitude. This may happen because of _____
_____ or _____
_____.

If it is 12:00 noon at 0° latitude and 0° longitude, all the places to the east are in the _____, which stands for _____. All places in the west are in the _____, which stands for _____.
_____.

What happens to the length and direction of your shadow (0° lat/ 0° long) from 6:00 am to 12:00 noon? _____

12:00 noon to 6:00 pm? _____

The Time Zones of Canada (from east to west) are:

As you travel from east to west you set your watch _____ in time?

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Complete the time zone map of Canada, and fill in the following chart:

IF THE TIME IS...	THEN THE TIME IS...
7:00 in Victoria	in Quebec City
8:00 in Yellowknife	in St. John's
11:00 in Fredericton	in Whitehorse
11:30 in St. John's	in Toronto
9:00 in Regina	in Ottawa
7:00 in Victoria	in St. John's
8:00 in Halifax	in Edmonton
11:00 in Charlottetown	in Fredericton
9:00 in Winnipeg	in Whitehorse
9:30 in Toronto	in Edmonton
12:00 in Iqualuit	in Toronto

