Latitude & Longitude

Measuring Earth Notes Page 10

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Let's Look at This Question:

How is latitude measured?
To get to the next line of latitude, you must move in which of two directions?
Latitude is measured from the Equator.
Let's Look at This Question:
How is longitude measured?
To get to the next line of longitude, you must move in which of two directions?
Longitude is measured East and West from the Prime Meridian.
Let’s do some plotting.
On the coordinate system, plot the coordinates given in your notes:
State the coordinates for each of the letters in the figure above:

- **E**: 65°N, 50°W
- **F**: 20°N, 75°E
- **G**: 10°S, 135°W
- **H**: 70°S, 15°E
PLEASE TURN TO PAGE 11 OF YOUR NOTES
LATITUDE

BASED ON THE ALTIMETER

OF POLARIS

Demo
POLARIS CAN ONLY BE SEEN IN THE NORTHERN HEMISPHERE
30°S, 100°E
Can't be seen!
Can't be seen!
45°N, 105°E
BASED ON EARTH'S ROTATION
EACH HOUR, EARTH ROTATES

15°

(360°/24hrs)
HOW MANY TIME ZONES?
HOW MANY TIME ZONES?

24 TIME ZONES

15° APART
People on the same line of longitude have the same Local Time.
Example: Two students record a difference in local time of two hours. How many degrees of longitude apart are they?

$15^\circ \times 2 \text{ hours} = 30^\circ$