Name: $\qquad$ Class \& Sec: $\qquad$ Roll No. $\qquad$ Date: 18.04.2020
Ch 2: Parallels and Meridians
See the video
https://youtu.be/s0AX3IJ H78
carefully

## Parallels and Meridians



## Get Setl

Look at a globe. There are some lines on it. Fill in the missing letters to complete their names.

1. $E Q_{U} Q_{T} D_{R}$
2. $T \geq P \perp \perp C$ of $C Q \in C \varrho_{R}$
3. $\mathrm{A} \simeq T$ $1 \perp$ CIDCLe

You have read that the Earth is spherical in shape. To find the location of places on the Earth, we need certain imaginary lines as reference. These lines are called parallels and meridians.

The Earth rotates on its axis. It is an imaginary line drawn through the centre of the Earth. The end points on the axis are called poles. The poles are used as two fixed points. The point on the top is the North Pole. The one at the bottom is the South Pole.

## PARALLELS

A set of circles is drawn on the surface of the globe. These circles run from east to west. They are called parallels or lines of latitude.
4. IR $R+1 \leq$ of $\int Q P 21 C 』 \geq N$
5. $A N \perp R \in T \perp C \perp R \leq \perp E$
6. $P X \perp M \in M \in R \perp d \mid \leq N$

The Earth is divided into two equal parts by drawing an imaginary line midway between the North Pole and the South Pole. This line is called the Equator. It is the longest parallel. The part of the Earth which lies to the north of the Equator is called the Northern Hemisphere. The other half, known as the Southern Hemisphere, lies to the south of the Equator.


## FactWise

The word latitude originates from the Latin word latus which means widel) The word meridanl originates from the Latin woud meridies which means middiy it is from the word meridian thut He get words such as ante meridiem (a.m.) meaning 'before noon' and post meridiem ( pm ) meaning after noon:

## Important features of parallels

- All parallels are complete circles. except for the North Pole and the South Pole. These are points.
- The length of the parallels decreases as we move away from the Equator and towards the poles.
- All parallels are located at an equal distance from each other.
- Parallels neither touch nor cross one another.

How are parallels numbered?
We start from the Equator and mark it as $0^{\circ}$ latitude. We mark the other parallels from $0^{\circ}$ to $90^{\circ}$. Apart from their value, the parallels are also marked N (North) or $\$$ (South), according to their location. The North Pole is written as $90^{\circ} \mathrm{N}$. The South Pole is written as $90^{\circ} \mathrm{S}$. Parallels are drawn at intervals of one degree. There are 90 parallels in the Northern Hemisphere and 90 parallels in the Southern Hemisphere. Therefore, there are 181 parallels in all, including the Equator.

Fill in the blanks:

1. A set of imaginary circles and semi circles run across the $\qquad$
2. The full horizontal circles are called $\qquad$ or parallels as they are drawn parallel to the equator.
3. The length of the parallels decreases as we move away from the equator towards the
4. The North Pole and the South Pole are $\qquad$
5. The parallels are located at an equal distance from $\qquad$ other.
6. There are $\qquad$ parallels in total.
7. Some Important latitudes are $\qquad$ , $\qquad$ , $\qquad$ ,
$\qquad$ , $\qquad$
8. Write the degree of the following latitude:
1) Equator $\qquad$
2) Tropic of cancer $\qquad$
3) Tropic of Capricorn $\qquad$
4) Arctic Circle $\qquad$
5) Antarctic Circle $\qquad$
9. $\qquad$ is the longest parallel.
10. The part of the earth which lies to the north of the equator is called $\qquad$ hemisphere.
11. The part of the earth which lies to the south of the equator is called $\qquad$ hemisphere.
12. The Arctic and the Antarctic circles are also called $\qquad$

Answer:

1. Globe
2. Latitude
3. Poles
4. Points
5. Each
6. 181
7. Equator, Tropic Of Cancer, Tropic of Capricorn, Arctic Circle, Antarctic Circle 8.
8. $0^{\circ}$
9. $23^{1 / 2}{ }^{\circ} \mathrm{N}$
10. $231 / 2^{\circ} \mathrm{S}$
11. $66 \frac{1}{2}{ }^{\circ} \mathrm{N}$
12. $5.661 / 2^{\circ} \mathrm{S}$
13. Equator
14. Northern Hemisphere
15. Southern Hemisphere
16. Polar Circles
