

# Globes, Maps and Diagrams

#### Lesson Highlights

- 1. Globe
- 2. Map
- 3. Plan
- 4. Sketch
- 5. A Comparison of Globe, Map, Plan, and Sketch
- 6. Importance of maps
- 7. Elements of a map
- 8. Types of maps
- 9. Diagrams—River landforms, folding and faulting landforms

The Earth we live in is spherical in shape, but its upper and lower ends are flattened. You must have seen a satellite picture of the Earth. For the convenience of studying the Earth and the various features on it, geographers have prepared a small model of the Earth and named it 'globe'. You must have seen and used maps at various places. Maps are the medium of expressing various features of the Earth's surface on a flat piece of paper.

## REPRESENTATION OF THE EARTH'S REALITY

Since ages, man has tried to depict his surroundings in various ways. Cave paintings are the earliest known example of such efforts made by the early man. He not only made pictures of animals, birds and fellow men but also tried to depict the area around him. The drawing of neighbouring areas emerged as the first map (Ptdlemy is supposed to be the father of mapping. His first world map made around 2nd CE remained unchallenged up to the middle ages. He talked about some regions of the world that existed but were not known to the man. He coined the term "Terra Incognita" for such regions. Later, when the actual circumference of the earth was estimated; the path of making a small model of the Earth became easier. The earliest terrestrial globe

that has survived, was made around 1492 CE. A globe is the only true map of the world. It went through a series of improvements to reach the present stage. But, it had certain limitations too. Thus, various other means of depicting the earth's reality were developed to meet the requirement. Sketch, plans, maps, and diagrams are few to name among those.

## Geo fact



The drawing of maps first originated as scribbles on clay tablets. Later, they were drawn and produced on cloth, stone, wood and leather.

A Clay Tablet map of 5th century B.C. from Babylonia

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#### Globe

A globe is a small scale three-dimensional model of the Earth) It is mounted on an axis,

on which it can rotate Land masses freely. and water bodies are printed it with on different colours. Several vertical and horizontal lines are drawn on the globe for

locating any feature or a place. These lines form a grid system that helps us in finding exact location of a place. A globe has certain disadvantages like:

Due to its small size, globe is difficult to read)

It does not have enough space to cover finer details of every geographical feature.

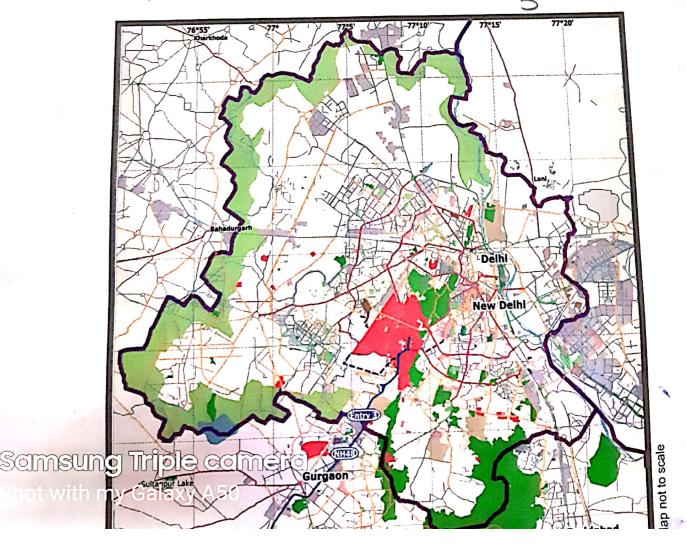
A globe occupies considerable space.

• Due to its round shape, it is not easy to carry everywhere.

Soon geographers found out a solution for all these problems and produced maps.

#### Map

A map looks like an <u>aerial view</u> of some area) Imagine yourself in a hot-air balloon. If you look at the ground, you will view many features such as—roads, villages, farms, buildings, rivers, mountains, forests, plateaus, and streams. A map is a visual representation





Map No. 1.2 A Plan of Delhi

of a part of the Earth's surface, highlighting relationships between elements of that area such as distance, direction, and other objects. A collection of maps in the form of a book is called an atlas.

## Geo Fact

The word 'map' comes from the Latin word 'mappa' which means napkin. When spread out, a map is flat like a napkin.

Map-drawing is a specialised field. This field is called 'cartography'. The term cartography comes from two Greek words; 'chartis' meaning 'map' and 'graphein' meaning 'write'. Cartography is the art and science of map making. It includes a complete process of map generation, from basic surveying and data collection to final map production. A person

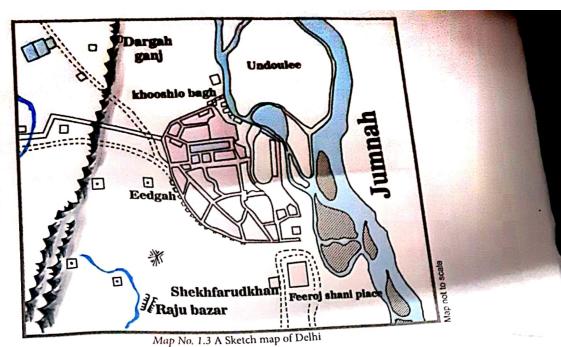
who develops a map is called 'cartographer'.

Today, (accurate maps can be produced at short interval very quickly with the help of advanced computers and softwares; such as—Geographic Information Systems (GIS).)

#### Plan

plan shows the details of a small area based on the actual measurements on the ground. It could be a plan of a house, a classroom, or a multi-storey building. The measurement and use of a scale is very important while drawing a plan. A plan is drawn with the help of drawing instruments. To draw a plan of a house or a building in detail, one needs to show the features correctly with reference to scale and direction.

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### Map No. 1.3 A Sketch map of Delhi

#### Sketch

SA sketch is a rough and free hand drawing of the relative position of a place with respect to other. Such drawing is not based on any scale and does not have all the features of the area in detail. A sketch is used to help the people, to go from one area to another or give them an idea of any place in general It is a drawing of some parts of towns, or a society, or colony; but it does not provide the internal details of that place.

## MAP-A GEOGRAPHER'S LANGUAGE

A map is a two-dimensional representation of the Earth's surface. They are drawn accurately, based on scale. Directions and distances are always correct in each map. We cannot retain They also whe the monday their own purpost

Thus, it is important to know advantages and disadvantages of a map and its elements.

## Importance of Maps

Maps are useful for all. We get accurate information about places, with the help of a map. People from different fields use map for different purposes. Initially maps were used mainly for defence and strategic purposes. Army personnel planned their strategies according to information derived from the maps. Later, their use and function spread to diverse fields like-town and country planning department, population scientists, personnel, (w) insurance managers, manufacturing and distribution industries, historians, economic experts, political parties, news makers and even the common man.

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		lauth a sa	Direction	Detailing	
400	Area	Scale	A globe always has	Due to its small size,	1
	A globe covers the	A globe is always small	true directions.	it does not have much details.	
Globe	entire Earth.	scale.		A map can have all	
	A map could be of	A map can be	A map has north located on it. Thus,	the details of an area	
	the whole world, a continent, or a state	small scale as well as large	a map always has	if it is large scale.	
Map	or a city; depending		correct directions.	- 1	
	upon the scale.				
	A plan is always	A plan is	A plan is	A plan deals with a small part of the land	
	for a small area.	always large	drawn with	so it contains much	
	It cannot cover an	scale.	proper drawing instruments and	detailed information.	
Plan	area, larger than a city. Usually we		proportionate		
	have plans of a		measurements. So, directions are		
	<mark>city, s</mark> ociety, or a building.		almost correct in a		
	ounding.	$\otimes$	plan.		
	A sketch could be for	HE / 1 N	A sketch is just	A sketch does not	
	ny area, country,	always large	free hand drawing	carry finer details of the area. It just	
Sketch S	tate, city or any mall location.	scale.	and sometimes directions are not	provides a broad	
			correctly shown	outline of the area.	
			on it.		
0/	Table 1.1	A Comparison of Glol	be, Map, Plan and Sketch		-
Advantages	of Maps	D	isadvantages of Mo	aps on (K	
Since map	s are drawn on two-	-dimensional 🌔		real earth surface car	nnot
piece of p	aper, they are easy	to fold and		map as they have b	
carry anywhere. transferred from a three-dimensional curved					rved
grande and a second second					
Maps can also be drawn for any single theme to avoid complexity in the map image.  Surface to a flat two-dimensional paper.  Being two-dimensional, a map cannot retain					
all the properties of a globe Sologian of the					eranı
<ul> <li>Calculating</li> </ul>	the direction an	id distance .	properties depend	ls on the purpose o	n me
between any	two places is much	l easier on a	map.	ou are hurhose o	i tne
map, in com	parison to the globe	The state of the s		urate around the equ	
/•	1		Their distortion	increase around the equ	iator.
wiaps are val	uable document and	d study tool	away from the	increases as they	move
as well They have in C. 1:					s.
over the period of time.  The shape and size of continents get distorted on various maps, depending on their projection.					
7			various off various	ous maps, dependir	ng on
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9				1	

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I fill in the blanks -
is the art and science of map making.
map making.
2. A person who develops a map is called
3. The measurement and use of scale
3. The measurement and use of scale is very important while drawing a
4. A collection of many in the form of
4. A collection of maps in the form of a book is called
5. is supposed to be the father of mapping.
father of mapping.
6. Maps are more accurate around
The state of the s
1 Différentiate between-
1. A Globe and a map.
0. 0. 1. 0. 1. 0.
2. Plan and Sketch
31 Man and Plan.
Map and Plan.  Scanned with CamScanner
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0	Answer the following questions -
1.	Write Iwo advantages and two disadvantages of map.
2.	Write the importance of map.
1.1	