

Maps

1. Answer the following questions briefly:

- (a) What are the three components of a map?
- (b) What are the four cardinal directions?
- (c) What do you mean by the term 'the scale of the map'?
- (d) How are maps more helpful than a globe?
- (e) Distinguish between a map and a plan.
- (f) Which map provides detailed information?
- (g) How do symbols help in reading map?

Answer: (a) The three components of a map are—distance, direction and symbol.

(b) The four cardinal directions are—North, South, East and West.

(c) The term 'the scale of the map' means the ratio between the actual distance on the ground and the distance shown on the map.

(d) Maps provide more information than a globe. A globe can be useful when we want to study the earth as a whole. But when we want to study only a part of the earth, as about a country or a state, globe is of little help. In such a situation only maps are useful.

(e) Differences between a map and a plan.

Map	Plan
1. We can study a part or whole of the earth with the help of a map.	1. A plan is a detail of drawing of small areas.
2. A map contains a lot of information.	2. In plan, details are given in the form of symbols.
3. A map shows only the very important features of the area.	3. A plan can show the length and the breadth.

(f) A thematic map provides detailed information.

(g) Symbols are an important part of a map. They give a lot of information in a limited space. With the use of symbols maps can be drawn easily and are simple to read. Even if we don't know the language of an area and therefore cannot ask someone for directions. We can collect information from maps with the help of symbols.

2. Tick the correct answer:

(a) Maps showing distribution of forests are

- (i) Physical map (ii) Thematic map (iii) Political map.

(b) The blue colour is used for showing

- (i) Water bodies (ii) Mountains (iii) Plains.

(c) A compass is used

- (i) To show symbols (ii) To find the main direction (iii) To measure distance.

(d) A scale is necessary

- (i) For a map (ii) For a sketch (iii) For symbols.

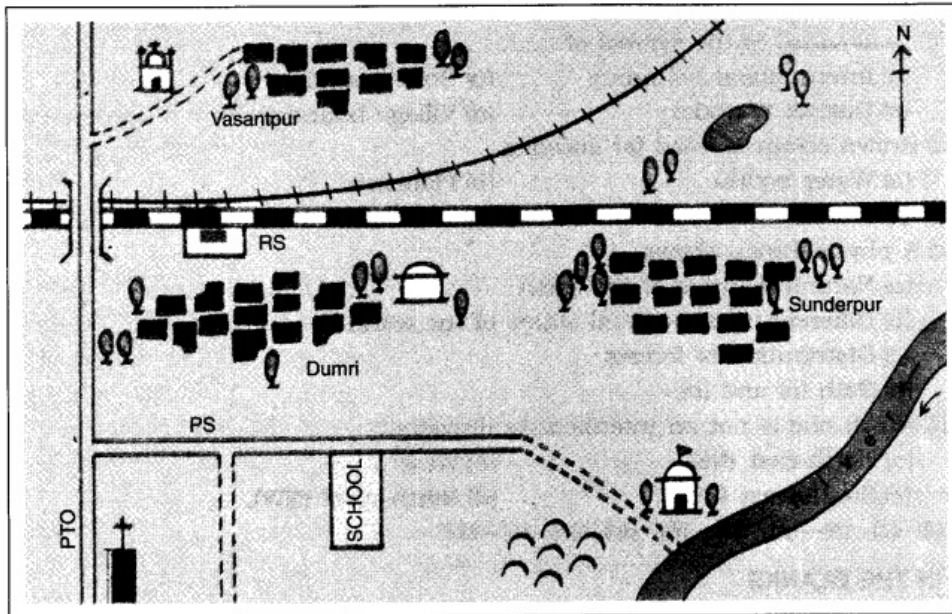
Answer: (a) —(ii), (b) —(i), (c) —(ii), (d) —(i).

Things to do

1. Draw a plan of your classroom and show the teacher's table, blackboard, desks, door and window.

Answer: Do yourself.

2. Look at the Figure 4.4 and find out:



- (i) In which direction is the river flowing?
- (ii) What kind of road passes by the side of village Dumri?
- (iii) On what type of railway line is Sunderpur situated?
- (iv) On which side of the railway bridge is police station situated?
- (v) On which side of the railway line do the following lie:
 - (a) Chhatri
 - (b) Church
 - (c) Pond
 - (d) Mosque
 - (e) River
 - (f) Post and Telegraph Office
 - (g) Graveyard.

Answer: (i) The river is flowing southward.

(ii) Metalled road.

(iii) Broad gauge.

(iv) North side.

(v) (a) South, (b) South, (c) North, (d) North, (e) South, (f) South, (g) South.

I. Multiple Choice Questions

Choose the correct options to complete the statements given below:

(i) Which one is not a component of map?

(a) Direction (b) Symbol

(c) Scale (d) Distance.

(ii) is the symbol of

- (a) International boundary (b) State boundary
 (c) District boundary (d) Village boundary.
- (iii) Brown colour is used for showing
 (a) Water bodies (b) Plateaus
 (c) Plains (d) Mountains.
- (iv) A physical map shows
 (a) Natural features of the earth
 (b) Different countries and states of the world
 (c) Distribution of forests
 (d) Both (a) and (b).
- (v) Which one is not an intermediate direction?
 (a) North-east (NE) (b) West
 (c) South-west (SW) (d) North-West (NW).

Answer: (i)–(c), (ii)–(a), (iii)–(d), (iv)–(a), (v)–(b).

II. Fill in the Blanks

Fill in the blanks with appropriate words to complete each sentence:

- (i) A..... is used to show large areas like continents or countries on a paper.
 (ii) A..... is an instrument used to find out main directions.
 (iii) Maps have a..... language that can be understood by all.
 (iv) In a sketch map is not needed.
 (v) Maps are more informative than a

Answer: (i) small scale (ii) compass (iii) universal (iv) scale (v) globe.

III. True/False

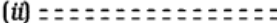
State whether these sentences are true (T) or false (F).

- (i) A globe is used to study the earth as a whole.
 (ii) Political maps show natural features of the earth.
 (iii) A large scale map is used to show large areas like countries on a paper,
 (iv) There are four intermediate directions.
 (v) Large scale maps give less information than small scale maps.

Answer: (i) True, (ii) False, (iii) False, (iv) True, (v) False.

IV. Matching Skill

Match the items in column A correctly with those given in column B.

Column A	Column B
(i) 	(a) Chhatra
(ii) 	(b) District boundary
(iii) 	(c) Well
(iv) 	(d) Unmetalled road
(v) 	(e) Broad gauge railway line
Ans. (i)–(e), (ii)–(d), (iii)–(a), (iv)–(b), (v)–(c).	

V. Very Short Answer Type Questions

1. When do you use a globe?

Answer: We use a globe when we want to study the earth as a whole.

2. What is an atlas?

Answer: An atlas is a collection of maps.

3. What do physical maps show? (Imp.)

Answer: Political maps show natural features of the earth such as mountains, plateaus, plains,

rivers, oceans, etc.

4. What do political maps show?

Answer: Political maps show cities, towns and villages and different countries and state of the world with their boundaries.

5. What do you mean by a thematic map? [V. Imp.]

Answer: A map which gives focus on specific information is known as thematic map. For example, road maps, maps showing distribution of industries, etc.

6. Differentiate between a small scale map and a large scale map. [V. Imp.]

Answer: (i) A small scale map is used to show large areas like continents or countries on a paper while a large scale map is used to show a small area such as village or town on a paper.
(ii) A large scale map is more informative than a small scale map.

7. What is called the north line?

Answer: Maps usually contain an arrow marked with the letter 'N' at the upper right hand corner. This arrow shows the north direction and is called the north line.

8. What is a compass?

Answer: A compass is an instrument used to find out main directions.

9. What are conventional symbols? [V. Imp.]

Answer: Some symbols have a fixed meaning and are understood uniformly throughout the world. Such symbols are known as conventional symbols.

10. What colours are used for the following:

(i) mountains

(ii) plains

(iii) plateaus

(iv) water bodies

Answer: (i) Mountains — Brown colour

(ii) Plains — Green

(iii) Plateaus — Yellow

(iv) Water bodies — Blue

11. What is a sketch map?

Answer: A sketch map is a rough drawing of an area. It is drawn without scale.

12. What is a plan?

Answer: A plan is a drawing of a small area on a large scale.

VI. Short Answer Type Questions

1. Differentiate between a small scale map and a large scale map. [V. Imp.]

Answer: (i) A small scale map is used to show large areas like continents or countries on a paper while a large scale map is used to show a small area such as village or town on a paper.
(ii) A large scale map is more informative than a small scale map.

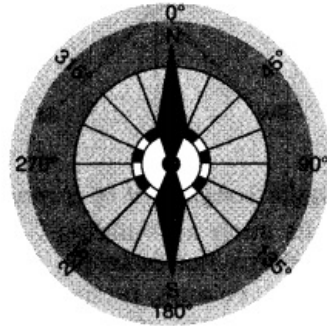
2. What are cardinal points and intermediate directions? [Imp.]

Answer: The four major directions—North, South, East and West are called cardinal points. Beside these major directions we have four intermediate directions—North-east (NE), South-east (SE), South-west (SW) and North-west (NW). The intermediate directions are very helpful

in locating any place more accurately.

3. Write a note on 'compass'. [Imp.]

Answer: The direction of a place is traced out with the help of a compass. It is an instrument used to find out main directions. Its magnetic needle always points towards north-south direction.



VII. Long Answer Type Questions

1. Define and discuss 'distance' as a component of a map. [V. Imp.]

Answer: Maps are drawings. They reduce the whole world or a part of it to fit on a sheet of paper. In other words we can say that maps are drawn to reduced scales. But it needs great care while doing this reduction work in order to keep the distance between the real places. It can only be possible when a small distance on paper represents a large distance on the ground. For this purpose a scale is used. Scale is the ratio between the actual distance on the ground and the distance shown on the map. We can understand this with the help of an example. Suppose, the distance between your coaching centre and your school is 8 km. If you show this 8 km distance by 2 cm on a map. It means, 1 cm on the map will show 4 km on the ground.

Thus, the scale of your drawing will be 1 cm = 4 km

Scale is very important in any map. If scale is known, calculation of distance between any two places on a map will be easy.

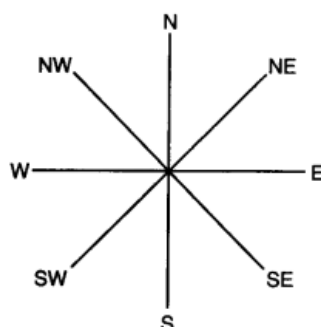
A small scale is used to show large areas on a paper like continents or countries. For example, 10 cm on the map shows 1000 km of the ground.

A large scale is used to show a small area like a village or town on paper. For example, 10 cm on the map shows 1000 metres only on the ground.

2. Give an account of 'direction' as a major component of a map. [Imp.]

Answer: Direction is an important component of a map. Most maps contain an arrow marked with the letter 'N' at the upper right hand corner. This arrow shows the north direction. It is called the north line. After knowing the north direction, other directions, east, west and south can be easily found out.

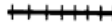
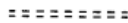
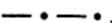
There are four major directions—North, South, East and West. They are called cardinal points. Besides these, there are four intermediate directions. They are north-east (NE), south-east (SE), south-west (SW) and north-west (NW). Location of any place with more accuracy can be possible with the help of these intermediate directions.



3. Discuss symbols as a major component of a map. [V. Imp.]

Answer: Drawing different features such as buildings, roads, etc. in their actual shape and size on a map is perhaps not possible. It is therefore, they are shown by using certain letters, shades, colours, pictures and lines. These are symbols that give a lot of information in a limited space. With the use of these symbols, maps can be drawn easily and are simple to read. These symbols help us greatly in a situation when we don't know the language of an area and therefore cannot ask someone for directions. We can collect information from maps with the help of these symbols.

Maps have a universal language, known and understood by all. There is an international agreement regarding the use of these symbols, which are known as conventional symbols.

Railway Line : Broad gauge, Metre gauge, Railway station	 ,  , 
Roads : Metalled, Unmetalled	 , 
Boundary : International, State, District,	 ,  , 
River, Well, Tank, Canal, Bridge	 ,  ,  ,  , 
Temple, Church, Mosque, Chhatri	 ,  ,  , 
Post Office, Post and Telegraph Office, Police Station	<i>PO</i> , <i>PTO</i> , <i>PS</i>
Settlement, Graveyard	 , 
Trees, Grass	 , 