

Grade 4 Mathematics - Chapter 5

The Way The World Looks

Original CBSE/NCERT-aligned learning material for Paryan's Learning Hub

Learning goals

Explore how objects look from the top, front and side; understand position and direction; recognise simple maps and layouts; and strengthen spatial thinking.

1. Different Views of the Same Object

An object can look different when we see it from different positions. Looking down from above gives a top view. Looking straight at an object gives a front view. Looking from one side gives a side view.

View	What it means	Example
Top view	Looking from above	Top of a table
Front view	Looking straight ahead	Front of a cupboard
Side view	Looking from the side	Side of a bus

Practice A - Think About Views

1. If you look down at a round plate from directly above, what basic shape will you see?
2. Which view would best show the length and height of the front of a school bus?
3. Name one object at home that looks different from the top and from the side.
4. Imagine a tall water bottle. Describe one thing you might see in its top view.

2. Position Words

Words such as above, below, left, right, near, far, in front of and behind help us describe where things are.

Example: If the library is to the left of the classroom, then the classroom is to the right of the library.

Practice B

1. A tree is behind a house. Where is the house compared with the tree?
2. A pencil is to the right of a book. Where is the book compared with the pencil?
3. A clock is above a blackboard. Where is the blackboard compared with the clock?
4. Draw three objects and write two sentences describing their positions.

3. Directions

The four main directions are North, South, East and West. On many simple maps, North is shown at the top, South at the bottom, East on the right and West on the left.

Map position	Direction
Top	North
Bottom	South
Right	East
Left	West

Practice C - Directions

1. If you move from the centre of a map to the right, which direction are you moving?
2. Which direction is opposite to North?
3. Which direction is opposite to East?
4. A park is north of a school. Where is the school compared with the park?
5. A shop is west of a house. Where is the house compared with the shop?

4. Reading a Simple Layout

Look at this imaginary classroom layout. The positions help us answer questions without visiting the room.

Window	Teacher's Desk	Door
Bookshelf	Student Tables	Computer
Cupboard	Reading Area	Sink

1. What is directly below the window?
2. What is to the right of the student tables?
3. What is directly above the reading area?
4. Which object is in the bottom-left part of the layout?

5. Draw Your Own Map

Draw a simple map of your bedroom, classroom or another familiar place. Show at least five objects. Add an arrow showing North, then write three sentences describing where objects are.

6. Challenge Questions

1. Paryan faces North. He turns right. Which direction is he facing now?
2. Paryan faces East. He turns around completely to face the opposite direction. Which direction is he facing?
3. A school is east of a park. A library is north of the school. Describe the library's position using the information given.
4. Why might the top view of a table be more useful than its front view when planning where to place it in a room?

7. Quick Quiz

1. A view from above is called the _____ view.
2. The opposite of North is _____.
3. On a standard simple map, East is usually on the _____.
4. If a ball is below a chair, the chair is _____ the ball.
5. The view seen by looking straight at the face of an object is its _____ view.

Answer Key

Practice A: 1) Circle; 2) Front view; 3) Answers vary; 4) For example, the circular opening/cap.

Practice B: 1) In front of the tree; 2) To the left; 3) Below; 4) Answers vary.

Practice C: 1) East; 2) South; 3) West; 4) South of the park; 5) East of the shop.

Layout: 1) Bookshelf; 2) Computer; 3) Student Tables; 4) Cupboard.

Challenge: 1) East; 2) West; 3) The library is north of the school, which is east of the park; 4) A top view can show the floor space/shape occupied by the table.

Quick Quiz: 1) top; 2) South; 3) right; 4) above; 5) front.

