



Geometry & Measurement Concepts - NCERT Chapter 1: Where to Look From

Students will be able to differentiate between different views of 3D objects (top, side, front, back) and trace the same

⌚ 40- 50 min

◀ PRE REQUISITES:

G2.68 Know how to classify 3-D shapes based on 2-D traces

✓ TLM



A bowl, a glass, a chalk, a battery

! MISCONCEPTIONS

None



KEY VOCABULARY

None



PLAY



Visualising 3D shapes

○ Divide students in groups of 4. Distribute everyday objects like bowl, a spoon, battery, a glass etc. to each group

○ Ask the students to trace the outline of the object by keeping it flat against the paper

○ Ask the students to change its orientation (turn it upside down or place it vertically) and trace the outline again

○ Ask the students to try and outline the same object in as many orientations as they can

👉 TEACHER'S NOTE

Demonstrate how to trace the outline of one object on the black board



PROCESS

Different perspectives of a glass



Different perspectives of a hut



Draw side, front, and top views of everyday objects

○ Hold out a glass to show its side view to the students. Draw the side view on the blackboard

○ Explain that this is a side view of the glass. Hold the glass & look at it from the top. Tell now you can see its base also

○ Hold out the glass to show the top view to the students also. Draw the top view & tell that it's the top view of a glass

○ Explain that the side view and top view of the glass look different from each other

○ Draw front, side, and top view of a hut.

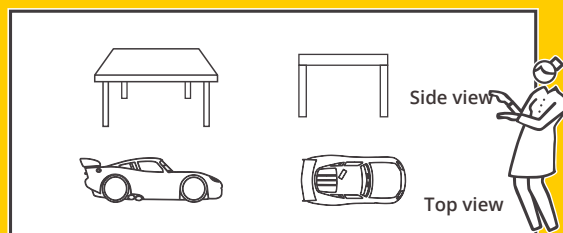
○ A person standing on the ground can see either the front view or the side view

❓ QUESTION

What will be the top and bottom views of the ice-cream cone?



PRACTICE



Draw the question and ask the students to solve it

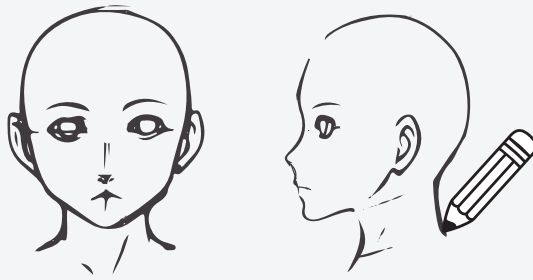
○ Help the students solve question 4 from the worksheet. Ask the students to look at the picture and identify if the corresponding pictures show top view or side view of the object

○ Remind students that while viewing an object from the top its sides are not visible. For example, doors of a car will not be visible when we look at it from the top. Only its roof will be visible

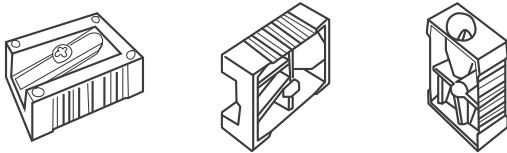
○ Help the students solve question 5 from the worksheet. Ask the students to draw and show a car approaching from the front and a car coming side



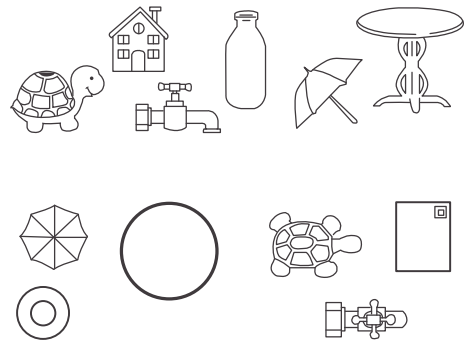
① SOLVED EXAMPLE : Draw the front view and side view of a face



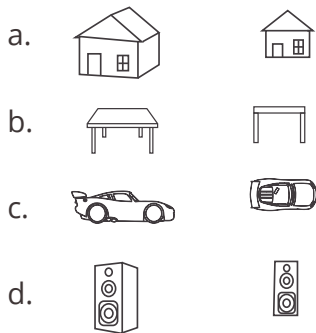
② Keep your sharpener as shown here and trace its outline.



③ Match the shapes with their top views



④ Observe the pictures and identify the views (Front/ Side/ Top)



⑤ Draw and show a car approaching from the front and a car coming side.

⑥ Different views of a pair of shoes are shown. Can you think of any other ways to look at a pair of shoes? Draw and show

