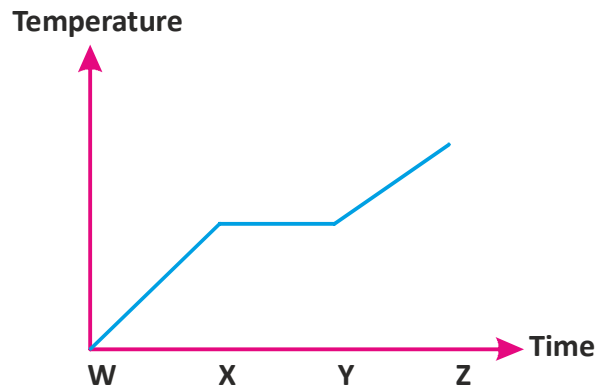


01

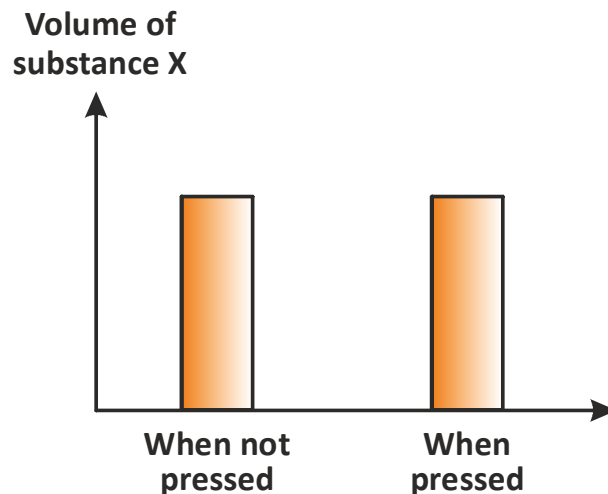
A girl melts four cubes of ice in a beaker. She leaves the beaker on a table for a few hours, and then heats it. The graph given below shows the changes undergone by the melted ice.



- What is the initial temperature of the water formed by the melting ice ?
- What is happening to the water from W to X in the graph ?
- Which of the lines – WX, XY or YZ – best represents room temperature ?
- At which point – W, X, Y or Z – did she heat the beaker ?
- Does ice gain or lose heat in order to melt ?

Your solution here:

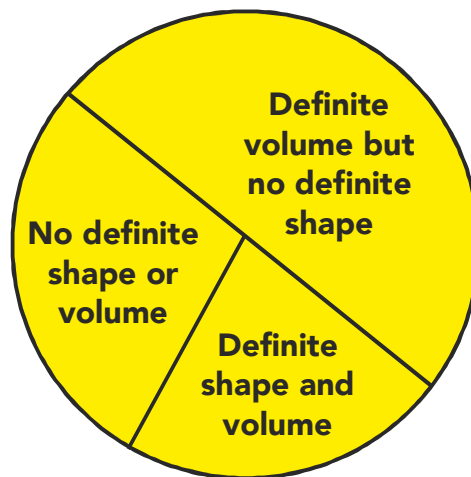
02 Maya took substance X and measured its volume. She then tried to press it and measured its volume again. She plotted the graph given below to show her results.



- From the given graph, what do you infer about the state of matter that substance X is in ?
- Why the volume of substance X remains unchanged when it was pressed ?

Your solution here:

03 A laboratory has 100 beakers containing various substances. The pie chart given below shows some properties of the substances.

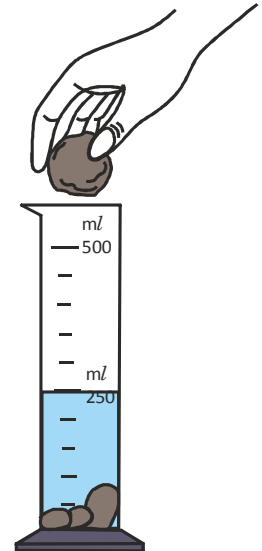


- In which state of matter is the group with the least number of substances ?
- How many beakers contain liquids ?
- How did you arrive at your answer in (b) ?

Your solution here:

04 A student had a measuring cylinder with 200 ml of water. He then dropped four pebbles of different sizes. K, L, M and N, into it as shown below. The table given below shows his observations.

Pebbles in the water	Reading on the measuring cylinder
K	210 ml
K + L	220 ml
K + L + M	250 ml
K + L + M + N	300 ml

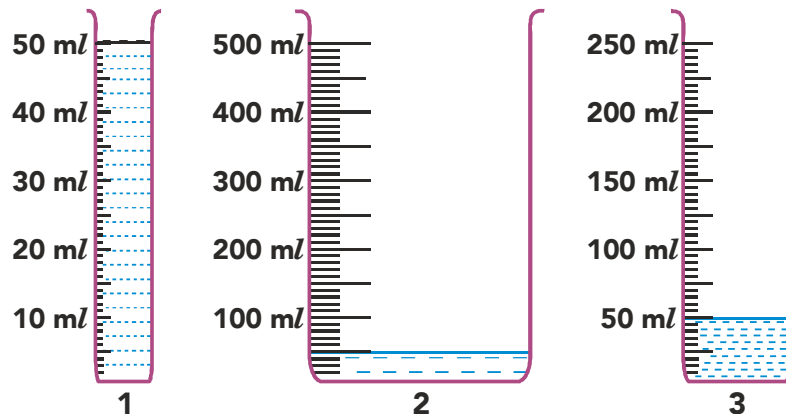


- Calculate the volumes of pebbles L and N.
- The pebbles and water are matter because they have _____ and occupy _____.

Your solution here:

05

Three measuring cylinders of different sizes are filled with 50 mL of boiling water.



- Arrange the rate of evaporation of water in the three measuring cylinders from the highest to the lowest.
- Which factor affects the rate of evaporation in this experiment ?
- Which factor will increase the rate of evaporation in the measuring cylinders ?

Your solution here: