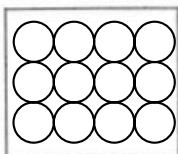


1. Highlight the correct **bold** words in the sentences below.

There are **two** / **three** / **ten** states of matter. A substance can flow in the liquid and **solid** / **gas** states. You can compress a substance a lot in the **solid** / **liquid** / **gas** state. A substance takes the shape of the bottom of its container in the **solid** / **liquid** / **gas** state. A substance takes the shape of its whole container in the **solid** / **liquid** / **gas** state.

2. a. In the box, draw the arrangement of particles in a substance in its solid state.

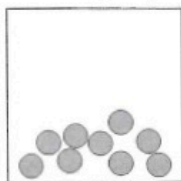


- b. Describe the movement of the particles in the solid.

*They vibrate on the spot*

3. A student drew the diagram below to represent the particles in a liquid.

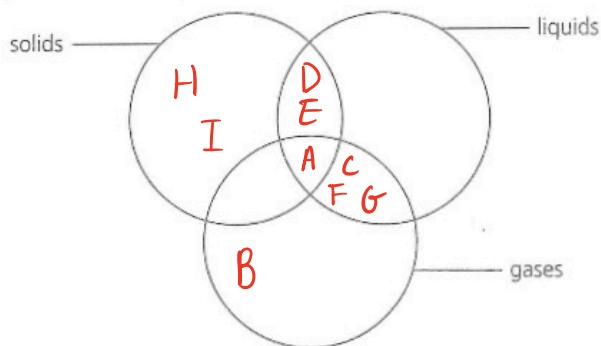
Explain what is wrong with the diagram, and draw a better one in the empty box.



*The particles should be touching at the bottom of the container*

4. Write the letter of each phrase below in the correct part of the diagram.

- A. Made up of particles
- B. Takes the shape of its whole container
- C. Particles move from place to place
- D. Particles touch each other
- E. Can be compressed only a tiny bit
- F. Particles are not in a pattern
- G. Flows
- H. Particles are in a regular pattern
- I. Particles do not move from place to place



### Extension

The statements below are about the particles in a liquid. They are all correct.

- P The particles hold together strongly.
- Q The particles touch each other.
- R The particles move around, sliding over each other.
- S The particles are not in a regular pattern.

- a. Write the letter of the statement that best explains why you can pour a liquid.

Explain your choice.

- b. Write the letter of the statement that best explains why the volume of a liquid does not change when you pour it into a bigger container. Give reasons for your choice.