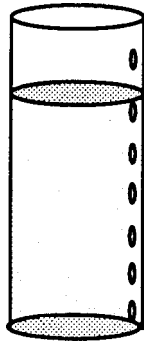


Homework 31e Pressure all around

1. Read the sentences below and copy out the ones which are true.
 - (i) A submarine needs to be strong because the sea water puts a large pressure on it.
 - (ii) The pressure underwater gets greater as you go deeper.
 - (iii) Normally there is no pressure acting on us.
 - (iv) The pressure of air in a pumped-up tyre is greater than the air pressure outside the tyre.
 - (v) The pressure of air around us is called atmospheric pressure.
2. The diagram shows a tall container of liquid. There are small holes every 5 cm up the side of the container. Copy the diagram and show how the jets of water will flow from the holes.
3. What happens to the air pressure on you as you go down a deep mine? Explain why this happens.
4. Explain what would happen to a thin metal can if all the air was pumped out of it.
5. Explain why:
 - (a) The atmospheric pressure on the moon is zero.
 - (b) You can fill a bucket faster from a downstairs tap than from an upstairs tap.
 - (c) Aeroplanes are often pressurised.
6. Find out about and explain, using the idea of pressure, how the following devices work.
 - (a) Vacuum cleaner
 - (b) Aeroplane altimeter
 - (c) Braking system of a car