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STUDY MATERIAL SCIENCE CLASS-VIII

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Force and pressure

Pressure:

The force acting perpendicularly per unit aren on a surface is called pressure

So if the applied force remains the same, the smaller the area on which the force acts, the greater will be the pressure felt on the surface in contact.

A sharp knife or the painted tip of a nail effectively concentrates the force and makes the pressure acting on a tiny ares of the surface extremely high.

Fact: A woman weighing 70kg and wearing shoes with high and pointed heels exerts a pressure of up to 1.150 kg on the floor