Class VIII Science — Force and pressure

Answer briefly. Show working for numericals.

Name: _____ Date: _____

1. Give two effects of a force on an object.

2. Name a non-contact force.

3. Why are school bag straps made wide?

4. A force of 100 N acts on an area of 2 m^2. Find the pressure.

5. Why does a sharp knife cut better than a blunt one?

6. Liquids exert pressure on the walls of the container. Give one example.

7. What is the SI unit of pressure?

8. A box weighs 60 N and rests on a face of area 0.3 m^2. Find the pressure it exerts.

Answers

For parents and teachers: check the method as well as the answer.

1. It can change speed, direction or shape
2. Magnetic, electrostatic or gravitational force
3. A larger area means less pressure on the shoulders
4. 50 Pa (pressure = force ÷ area)
5. Its small edge area gives a large pressure
6. Water spurts out of holes in a bottle's side
7. Pascal (Pa)
8. 200 Pa