

- 2 (a) Define *pressure*.

..... [1]

- (b) A cylinder is placed on a horizontal surface, as shown in Fig. 2.1.

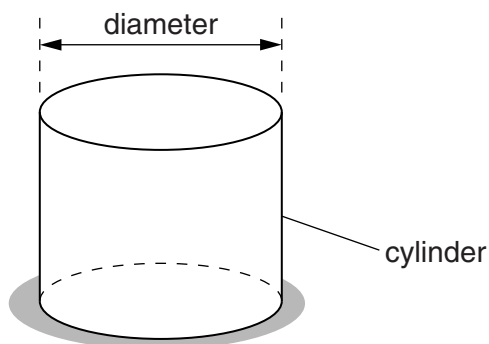


Fig. 2.1

The following measurements were made on the cylinder:

mass = 5.09 ± 0.01 kg
diameter = 9.4 ± 0.1 cm.

- (i) Calculate the pressure produced by the cylinder on the surface.

pressure = Pa [3]

- (ii) Calculate the actual uncertainty in the pressure.

actual uncertainty = Pa [3]

- (iii) State the pressure, with its actual uncertainty.

pressure = \pm Pa [1]