

10 Compressed air from a can is used to clean computer keyboards.



(a) Use ideas about particles to explain how a gas causes a pressure on the inside of a container. (3)

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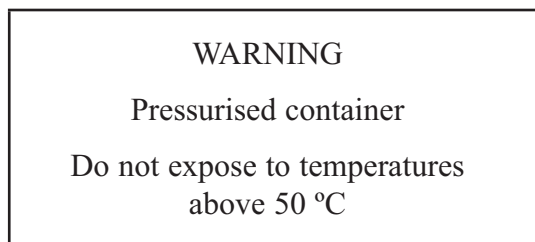
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- (b) The can has a warning sign on it.



- (i) How would increasing the temperature of the compressed air affect the pressure in the can?

(1)

- (ii) Explain your answer.

(2)

- (c) The can has a volume of 400 cm^3 and the pressure of the compressed air inside is 5 times atmospheric pressure.

Calculate the volume that the air would occupy if it were all released to atmospheric pressure.

(2)

Volume = cm^3

(Total for Question 10 = 8 marks)

