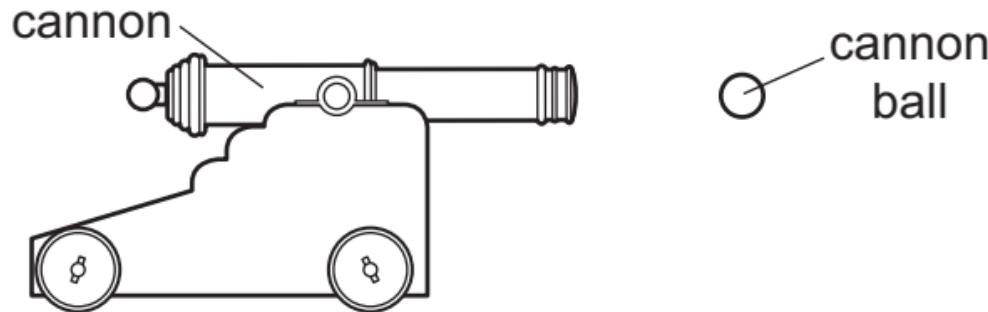


12 The diagram shows a cannon ball fired from a cannon.



The mass of the cannon is 1000 kg and the mass of the cannon ball is 10 kg.

The recoil velocity of the cannon is 5 m s^{-1} horizontally.

What is the horizontal velocity of the cannon ball?

A 200 m s^{-1}

B 500 m s^{-1}

C 2000 m s^{-1}

D 5000 m s^{-1}

13 Which force is caused by a pressure difference?