

- 2** A cricket ball is travelling at a speed of 25 m/s horizontally through the air. The mass of the ball is 0.14 kg.

A player catches the ball and the ball comes to rest.

- (a)** Calculate the change in momentum of the ball during the catch.

change in momentum = [2]

- (b)** The player's hands are in contact with the moving ball for 9.7 ms.

Calculate the horizontal force exerted by her hands to bring the ball to rest.

force = [3]

[Total: 5]