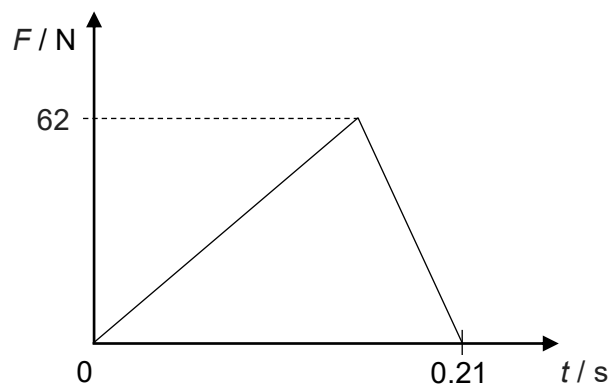**4**   The graph below shows the variation with time of the force exerted by a baseball pitching machine that throws baseballs of mass 150 g from rest.

What is the velocity of a ball immediately after leaving the machine?

A   13 m s^{-1}

B   43 m s^{-1}

C   87 m s^{-1}

D   295 m s^{-1}