6   A pail of water is spun vertically in a circular motion with a radius of 1.3 m as shown.

1.3 m

water in a pail
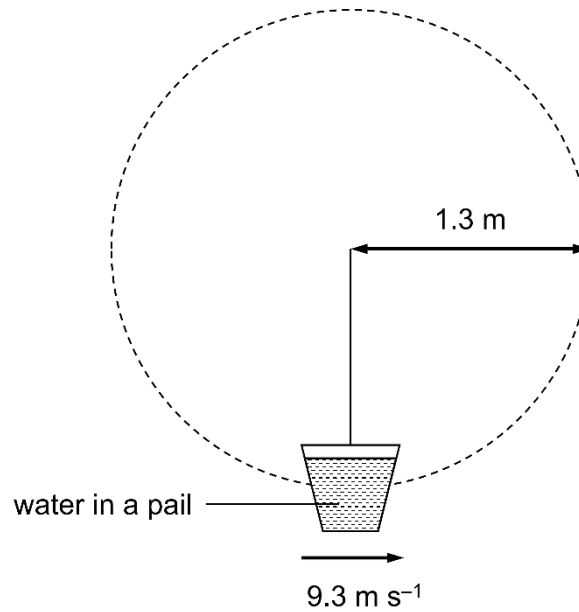
9.3 m s^{-1}

The mass of water is 0.52 kg and the speed of the pail at the bottom of the circle is 9.3 m s^{-1}.

What is the normal contact force acting on the water at the bottom of the circle?

A   5.1 N   B   30 N   C   35 N   D   40 N