

The parent now extends the jolly jumper and toddler occupying it to 2.0 m below the zero extension position as shown in Figure 16.

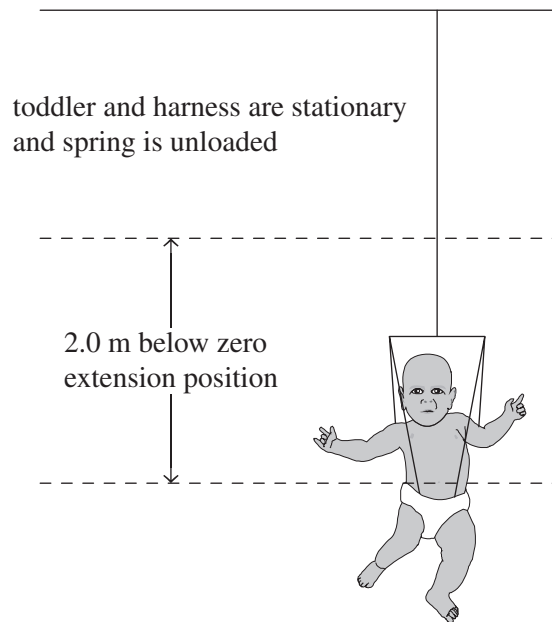


Figure 16

The parent releases the toddler and it moves upwards.

- b.** Calculate the speed of the toddler when its centre of mass has moved 1.0 m upwards from the position shown in Figure 16.

2 marks

m s^{-1}