v(big) = 1.09ms-1

**p(big) = 0.227 kg ms-1**

v1(small) = 0.552ms-1

v2(small) = 1.48 ms-1

**p1(small) = 0.0554 kg ms-1**

**p2(small) = 1.48 kg ms-1**

p1 + p2 = p1 + p2

m1u1 + m2u2 = m1v1 + m2v2

0.227 + 0 = 0.0554 + 1.48

0.227 ≈ 0.204