

classwork 3/8

1. A deer has a mass of 146 kg & is running with a velocity of $17 \frac{m}{s}$ south. How much momentum does the deer have?
2. What velocity must a 1210 kg car have in order to have the same momentum as the pickup truck? ($\vec{p} = 56,250 \frac{kg \cdot m}{s}$ east)
3. A child has a momentum of $94 \frac{kg \cdot m}{s}$ north and a velocity of $4.5 \frac{m}{s}$ north. What is the child's mass?