SANGAM SKM COLLEGE NADI

YEAR 12

PHYSICS

WORKSHEET 3

ANSWERS

1.
$$J = \Delta P = m\Delta v$$
$$= (0.05 \text{kg})(75 \text{ms}^{-1})$$
$$= 3.75 \text{kgms}^{-1}$$

2.
$$m\Delta v = F \Delta t$$

(0.12kg)(20ms⁻¹) = F(0.01s)
 $F = 240N$

3.
$$\Delta P = m\Delta v$$

= $(0.06 \text{kg})(46 \text{ms}^{-1})$
= 2.76kgms^{-1}

b)
$$\Delta P = F\Delta t$$

2.76 = F(0.02)
F = 1.38N