

Question Number	Answer	Mark
15(a)	Use of $W = m g$ Use of resultant force = push from trampoline – weight of gymnast Use of $\Sigma F = m a$ $P = 1.4 \times 10^3 \text{ N}$  <u>Example of calculation</u> $\Sigma F = P - W$ $m a = T - m g$ $58 \text{ kg} \times 14.2 \text{ m s}^{-2} = P - 58 \text{ kg} \times 9.81 \text{ N kg}^{-1}$ $P = 58 \text{ kg} \times (14.2 + 9.81) \text{ m s}^{-2} = 1.39 \times 10^3 \text{ N}$	(1) (1) (1) (1)   <